SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : K64A(N)_Corset-2
Model : TXS2783X/XAA

SERVICE Manual

COLOR TELEVISION RECEIVER

TX-S2783

FEATURES

- Turbo Sound
- Low Stand-By Power Wattage
- SOUND Equalizer

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1. Precaution

To avoid possible damages or electric shocks or exposure to radiation, follow the instructions below with regard to safety, installation, service and ESD.

1-1 Safety Precautions

1. Make sure all protective devices are properly installed including non-metallic handles and compartment covers when installing or re-installing the chassis or chassis assemblies.

2. Make sure that no gaps exist between the cabinets for children to insert their fingers in to prevent children from receiving electric shocks. Gaps mentioned above include ventilation holes of a too great magnitude between the vaccum tube and the cabinet mask, and the improper installation of the rear cabinet.

   Errors may occur when the resistance is below 1.0 MΩ or over 5.2 MΩ.
   In these cases, make sure that the device is repaired before sending it back to the customer.

3. Check for Electricity Leakage (Figure 1-1)
   Warning: Do not use an insulated transformer for checking the leakage. Use only those current leakage testers or mirroring systems that comply with ANSIC 101.1 and the Underwriter Laboratory's specifications (UL1410, 59.7).

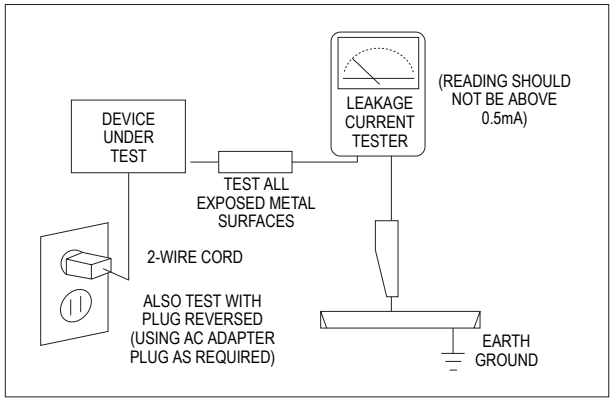

LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

4. A high voltage is maintained within the specified limits using safety parts, calibration and tolerances. When voltage exceeds the specified limits, check each special part.

5. Warning for Engineering Changes:
   Never make any changes or additions to the circuit design or the internal part for this product.
   Ex: Do not add any audio or video accessory connectors. This might cause physical damage. Furthermore, any changes or additions to the original design/engineering will invalidate the warranty.

6. Warning - Hot Chassis:
   Some TV chassis are directly connected to one end of the AC power cord for electrical reasons.
   Without insulated transformers, the product can only be repaired safely when the chassis is connected to the earthed end of the AC power source.

   To make sure the AC power cord is properly connected, follow the instructions below. Use the voltmeter to measure the voltage between the chassis and the earthed ground. If the measurement is over 1.0V, unplug the AC power cord and change the polarity before re-inserting it. Measure the voltage between the chassis and the ground again.

7. Some TV chassis are shipped with an additional secondary grounding system. The secondary system is adjacent to the AC power line. These two grounding systems are separated in the circuit using an unbreakable/unchangeable insulation material.

8. When any parts, material or wiring appear overheated or damaged, replace them with new regular ones immediately. When any damage or overheating is detected, correct this immediately and make a regular check of possible errors.

9. Check for the original shape of the lead, especially that of the antenna wiring, any sharp edges, the AC power and the high voltage power. Carefully check if the wiring is too tight, incorrectly placed or loose. Never change the space between the part and the printed circuit board. Check the AC power cord for possible damages. Keep the part or the lead away from any heat-emitting materials.

10. Safety Indication:
    Some electrical circuits or device related materials require special attention to their safety features, which cannot be viewed by the naked eye. If an original part is replaced with another irregular one, the safety or protective features will be lost even if the new one has a higher voltage or more watts.

    Critical safety parts should be bracketed with ( ). Use only regular parts for replacements (in particular, flame resistance and dielectric strength specifications). Irregular parts or materials may cause electric shock or fire.

1-2 Servicing Precautions

Warning 1: First carefully read the "Safety Instruction" in this service manual.
When there is a conflict between the service and the safety instructions, follow the safety instruction at all times.

Warning 2: Any electrolytic capacitor with the wrong polarity will explode.

1. The service instructions are printed on the cabinet, and should be followed by any service personnel.

2. Make sure to unplug the AC power cord from the power source before starting any repairs.
   (a) Remove or re-install parts or assemblies.
   (b) Disconnect the electric plug or connector, if any.
   (c) Connect the test part in parallel with the electrolytic capacitor.

3. Some parts are placed at a higher position than the printed board. Insulated tubes or tapes are used for this purpose. The internal wiring is clamped using buckles to avoid contact with heat emitting parts. These parts are installed back to their original position.

4. After the repair, make sure to check if the screws, parts or cables are properly installed. Make sure no damage is caused to the repaired part and its surroundings.

5. Check for insulation between the blade of the AC plug and that of any conductive materials (i.e. the metal panel, input terminal, earphone jack, etc).

6. Insulation Check Process: Unplug the power cord from the AC source and turn the switch on. Connect the insulating resistance meter (500v) to the AC plug blade.

   The insulating resistance between the blade of the AC plug and that of the conductive material should be more than 1 MΩ.

7. Any B+ interlock should not be damaged.
   If the metal heat sink is not properly installed, no connection to the AC power should be made.

8. Make sure the grounding lead of the tester is connected to the chassis ground before connecting to the positive lead. The ground lead of the tester should be removed last.

9. Beware of risks of any current leakage coming into contact with the high-capacity capacitor.

10. The sharp edges of the metal material may cause physical damage, so ensure wearing protective gloves during the repair.

1-3 Static Electricity Precautions

1. Some semi-conductive ("solid state") devices are vulnerable to static electricity. These devices are known as ESD. ESD includes the integrated circuit and the field effect transistor. To avoid any materials damage from electrostatic shock, follow the instructions described below.

2. Remove any static electricity from your body by connecting the earth ground before handling any semi-conductive parts or ass'ys. Alternatively, wear a dischargeable wrist-belt.
   (Make sure to remove any static electricity before connecting the power source - this is a safety instruction for avoiding electric shock)

3. Remove the ESD ass'y and place it on a conductive surface such as aluminum foil to prevent accumulating static electricity.

4. Do not use any Freon-based chemicals.
   Such chemicals will generate static electricity that causes damage to the ESD.

5. Use only grounded-tip irons for soldering purposes.

6. Use only anti-static solder removal devices.
   Most solder removal devices do not support an anti-static feature. A solder removal device without an anti-static feature can store enough static electricity to cause damage to the ESD.

7. Do not remove the ESD from the protective box until the replacement is ready. Most ESD replacements are covered with lead, which will cause a short to the entire unit due to the conductive foam, aluminum foil or other conductive materials.

8. Remove the protective material from the ESD replacement lead immediately after connecting it to the chassis or circuit ass'y.

9. Take extreme caution in handling any uncovered ESD replacements. Actions such as brushing clothes or lifting your leg from the carpet floor can generate enough static electricity to damage the ESD.

CAUTION

These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.

2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.

3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.

4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.

5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.

6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the high-voltage cable or the antenna falling over may cause fire or electric shock.

7. Check the basics of the screen test.
   - Image position/size, Tilt adjustment

MEMO

2. Product Specification

2-1 Product Features

Block	Specfication	Core Parts	Remark
CRT	29" FLAT Slim CRT	Vixlim CRT	
RF Part	1TUNER F/S TUNER	THPC4111FG47A(S)	
Power	WORLD WIDE INPUT VOLTAGE RANGE STD-BY : 3W UNDER	STR-W6750F	
Video	- NTSC 3.58/ATSC - 4H Comb Filter	TDA15001H	
Audio	- Output : 7W x 2 - BTSC/SAP STEREO : PSEUDO STEREO, TURBO PLUS	TEA6422 TDA7297SA	
Cabinet	- Z30 CABINET		
Other	- BASIC MODEL : TXS2783X/XAA - UOC3 with a built-in MSP - TURBO PLUS		

■ Core Parts Functions
- STR-W6750F : SMPS Power STR
- TDA7297SA : 5W ~ 15W Sound Output BTL AMP
- 24C16 : 16K EEPROM
- LA78045 : Vertical Deflection AMP
- TDA15001H : UOC3(NTSC/Tri-norma)
- X240S : DTV ONE CHIP

2-2 Key Features

Model	TXS2783X
Voltage	AC110-120V
Frequency of Operation	50/60 Hz
Power Consumption	150 Watts
Dimensions	796 x 421 x 593 mm 36.7 x 15.9 x 22.3 inches
Weight	43 Kg/120.1 lbs

■ Hardware Configuration
- 1 Chip : UOC3 TDA15001H(CHROMA, IF+Deflection, MICOM, MSP)
- Tuner : THPC4111FG47A(S)
- SOUND AMP : TDA7297SA(ZIP, 15P, -, DUAL, 32dB, PLASTIC, 20V, 30W)
- SMPS Controller : STR-W6750F(6P, TO-3P-F7L)
- Vertical AMP : LA78045(TO220, 7P, 15V)
- Flyback Trans : FUH29A001V
- CRT : A68QFZ893X001(Vixlim, 1H Single Focus)

■ Software Configuration
- MCU : 80C51-controller core
- Data Capture for US Closed Caption
- 0.4883s machine cycle

■ Picture
- System : NTSC3.58
- Interlaced(60Hz)
- AKB(Auto Kinetic Bais)
- Comb Filter : 4H Comb Filter

■ Sound
- System : Stereo
- Sound Equalizer
- Output : 7W + 7W
- Speaker : 1Way x 2
- Turbo Sound
- AVL, Melody, Auto Stereo, Auto Mute

■ Feature
- Composite (RCA A/V, DVD), S-Video(Y/C)
- Picture Size : Zoom/4:3/16:9
- Auto Serch
- Sleep Timer : 180 Min
- Clock Setting
- Zoom, Blue Screen, Color Tone
- Closed Caption(CC1-4/Text1-4)

■ In/Out Terminals
- Rear : 2RCA/DVD/S-VHS
- 1 Monitor out , 1USB Port, 1 Optical Out
- Front or Side A/V Input(Side A/V Preferability) : 1RCA/1S-VHS Input

■ Remocon
- Universal Interface TM85

■ Power Consumption : 150W

2-3 Specifications Analysis

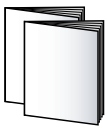
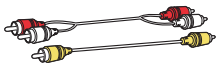
Common Info

Chassis		S62B	K64A
Basic	Product Type	Slimfit CRT	Slimfit CRT
	Digital Display	–	–
	Screen Size	32/29 inch	29 inch
	Aspect Ratio	16:9 / 4:3	4:3
Visual Quality	Progressive Scan	–	–
	Digital Comb Filter	–	4H LINE
	Screen Pitch	0.73	0.73
	AKB	○	○
	Digital Noise Reduction	○	○
	DNIe	–	–
	3:2 Pull Down Support	–	–
Audio	Base/Treble/Balance	–	–
	Equalizer	5Band	5 Band
	AVL	○	○
	Surround	SRS-WOW	-
	Speaker System	Direct	Direct
	Sperker Output	10W+10W	7W+7W
Function	Dual Screen Function	–	–
	Double Screen	–	–
	Still Picture	○	–
	Auto Jack Recognition	–	–
Ports	Antenna In	Rear:1	Rear:2
	Extermal In	Rear:2, Side:1	Rear:2, Side:1
	S-Video	Side:1	Side:1
	Y/Pb/Pr	–	Rear:1
	PC	–	–
	DVI	–	–
	HDMI	–	–
	Digital Audio Out	–	○
	Video Out	Rear:1	Rear:1
	Audio Out	–	Rear:1

Option Info

Model		WS32Z30/CW29X30	TXS2783X
Design			
Visual Quality	Digital Comb Filter	–	4H-LINE
Ports	HDMI	X	X

2-4 Accessories

Accessories		Item	Item code	Remark
Supplied Accessories		Remote Control AAA Alkaline Battery (2)	AA59-00378A 4301-000103	Samsung Service center
		Owner's Instructions	AA68-03783A	
		Warranty Card	AA68-00371C	
Accessories that can be purchased additionally		Video Cable / Audio Cable	-	Internal shopping mall
		Antenna Cable	-	
		Component Cable	-	

3. Alignment & Adjustment

3-1 Service Instruction

1. General Adjustment :
   In general, a color TV can provide ideal visual quality by adjusting the basic settings such as the vertical size, horizontal size, focus, etc.
   Display a black and white picture on the screen to check if the picture is clearly displayed.
   If there are some 'spotted' points on the screen when displaying a black and white picture, degauss the screen using the degauss coil. If the spotted points remain, re-adjust the purity and the convergence.
   This completes the basic performance examination.

   ⚠ Notice.
   - ■ These adjustments and the check list are only applied to K64A chassis-applied models.
   - ■ Only use 110V for the measurement set. It is recommended using an insulation transformer when supplying power to the set so as to prevent shock to the set or to yourself.
   - ■ These adjustment specifications have been created on the basis of the domestic K64A chassis-applied remote control model. Some of the contents may be changed subject to the sales location and the product specifications.

※ When replacing the Module Service Instruction

1. When replacing the MAIN Board : Tilt adjustment, Focus adjustment, Screen voltage, W/B adjustment are all required. Since the settings including the Channel information, Deflection, etc. are saved to the EEPROM, recogfigure these settings when replacing the MAIN Board.
   The notation of the software information : T-CR2N4S5-0002 refer to "Coset2 BASIC MODEL. ver.1000"
   Since the settings including the Channel information, Deflection, etc. are saved to the EEPROM, recogfigure these settings when replacing the MAIN Board.

2. When replacing the CRT Ass'y : No adjustments required

3. When replacing the front panel Master Power switch : No adjustments required

4. When replacing the Side AV Ass'y : No adjustments required

5. When replacing the MICOM Ass'y : No adjustments required

6. When replacing the Control Ass'y : No adjustments required

7. When replacing the DTV module Ass'y : No adjustments required

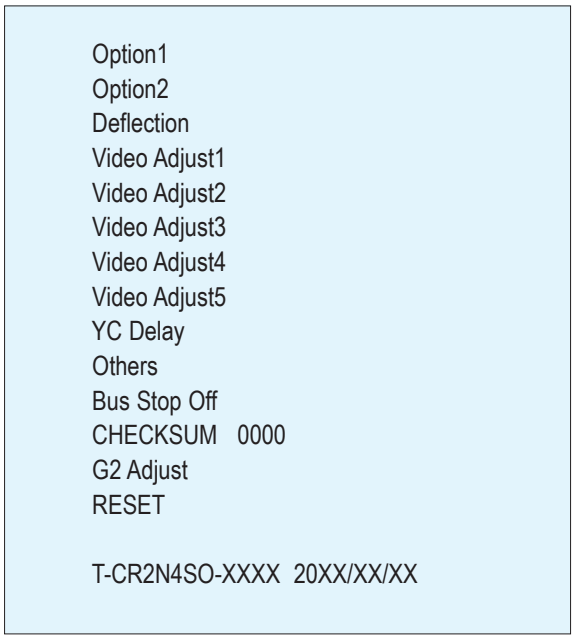
3-2 How to Access Service Mode

1. To enter Service Mode, press the keys on the remote control according to the following sequence. (in Stand-by status)

   Mute → 1 → 8 → 2 → Power On

   ※ When failing to enter Service Mode, repeat the procedure above.

2. The initial screen of Service Mode.



3. Functions of the Keys within Service Mode.

MENU	Show all menus
▲ / ▼	Move the cursor to select an item.
◀ / ▶	Adjust the selected configuration value

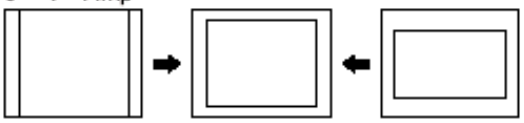
3-3 Factory Data

★ The underlined are items applied during the service adjustment. None of the others should be adjusted.

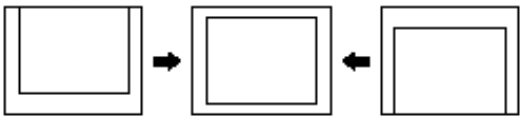
1. Deflection

No	Item	Remark	Varyable Range	Adjust Data
1	V Amp	Variable	0~63	36
2	V Shift	Fixed	0~63	16
3	H EW	Variable	0~63	50
4	H Shift	Variable	0~63	42
5	V Linearity	Fixed	1~15	20
6	V S-Correction	Fixed	0~63	32
7	V Slope	Fixed	0~63	33
8	V Scroll	Variable	0~63	25
9	V Zoom	Fixed	0~63	50
10	H Parabola	Variable	0~63	47
11	Upper Corner	Variable	0~63	45
12	Lower Corner	Variable	0~63	42
13	H Trapezium	Variable	0~63	50
14	Bow	Variable	0~63	41
15	Angle	Variable	0~63	33

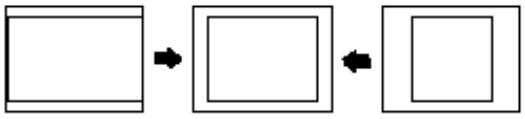
0 V - Amp



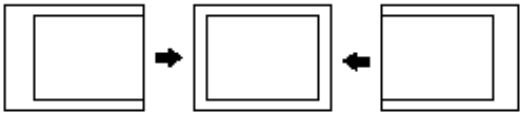
1 V-Shift



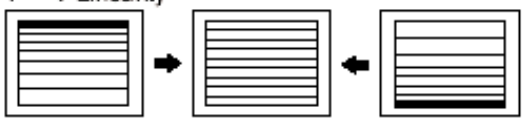
2 H-EW



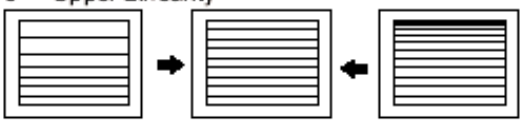
3 H-Shift



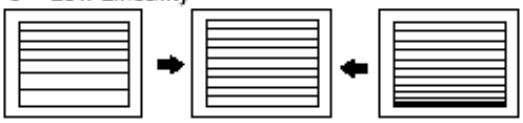
4 V-Linearity



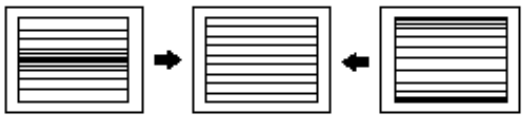
5 Upper Linearity



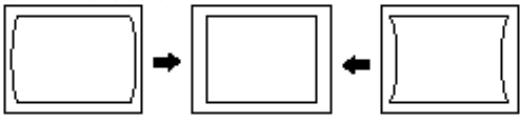
6 Low Linearity



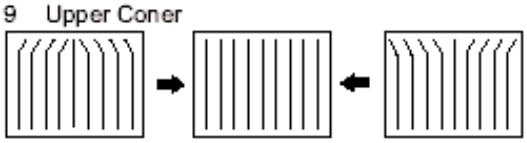
7 V SC



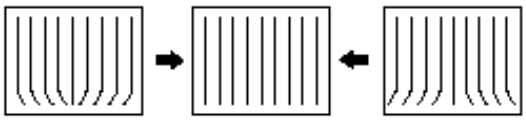
8 H-Parabola



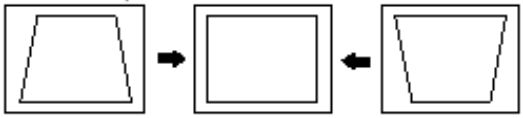
9 Upper Coner



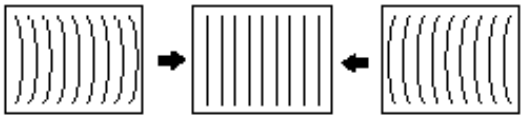
10 Low Coner



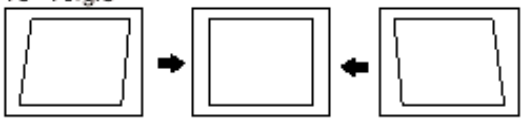
11 H- Trapezuim



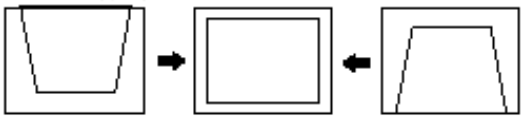
12 Bow



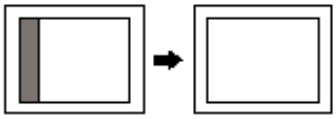
13 Angle



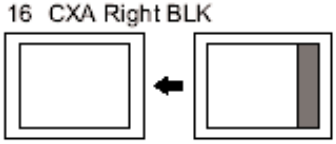
14 V Position



15 CXA Left BLK



16 CXA Right BLK



2. Video Adjust 1

No	Item	Remark	Varyable Range	Adjust Data
1	R Cutoff	Variable	0~63	28
2	B Cutoff	Variable	0~63	38
3	R Drive	Variable	0~63	43
4	G Drive	Fixed	0~63	32
5	B Drive	Variable	0~63	37
6	Sub Bright	Variable	0~23	12
7	Sub Contrast	Variable	0~23	17
8	PAL/SECAM Sub Color	Fixed	0~23	23
9	NTSC Sub Color	Fixed	0~23	22
10	NTSC Sub Tint	Fixed	0~13	6
11	YUB Sub Tint	Fixed	0~13	32
12	AKB Option	Fixed	0~1	0
13	Peaking CFO &Delay Mode	Fixed	0~3	1
14	Sub Sharpness-RF	Fixed	0~13	4
15	Contrast Base	Fixed	1~10	5

3. Video Adjust 2

No	Item	Remark	Varyable Range	Adjust Data
1	Melody Volume	Fixed	0~100	25
2	RF AGB	Fixed	0~63	20
3	IF AGC Speed	Fixed	0~3	1
4	VM Mode	Fixed	0~3	0
5	VM Gain	Fixed	0~3	0
6	VM Delay	Fixed	0~7	0
7	Blue Stretch	Fixed	0~1	0
8	G2 Adjust Bright	Fixed	0~63	30
9	Soft Clipping Level	Fixed	0~3	1
10	Peak White Limit	Fixed	0~15	15
11	Cathode Drive Level	Fixed	0~15	5
12	IF Demodulator	Fixed	0~63	34
13	Fast Filter IF PLL	Fixed	0~1	0
14	FOA/FOB	Fixed	0~3	3

4. Video Adjust 3

No	Item	Remark	Varyable Range	Adjust Data
1	DTV R CutOff	Fixed	-20 ~ 20	-2
2	DTV B CutOff	Fixed	-20 ~ 20	0
3	DTV R Drive	Fixed	-20 ~ 20	0
4	DTV G Drive	Fixed	-20 ~ 20	0
5	DTV B Drive	Fixed	-20 ~ 20	-1
6	DTV SUB BRIGHT	Fixed	-20 ~ 20	5
7	DTV SUB CONTRAST	Fixed	-20 ~ 20	6
8	DTV SUB COLOR	Fixed	-20 ~ 20	0
9	Component R CutOff	Fixed	-20 ~ 20	1
10	Component B CutOff	Fixed	-20 ~ 20	12
11	Component R Drive	Fixed	-20 ~ 20	1
12	Component G Drive	Fixed	-20 ~ 20	0
13	Component B Drive	Fixed	-20 ~ 20	0
14	Component SUB BRIGHT	Fixed	-20 ~ 20	3
15	Component SUB CONTRAST	Fixed	-20 ~ 20	-1
16	Component SUB COLOR	Fixed	-20 ~ 20	0

5. Video Adjust 4

No	Item	Remark	Varyable Range	Adjust Data
1	IF Preset Value 1	Fixed	0~63	32
2	IF Preset Value 2	Fixed	0~63	32
3	IF PLL Osc Preset Value	Fixed	0~1	0
4	Preset Gain R	Fixed	0~127	20
5	Preset Gain G	Fixed	0~127	20
6	Preset Gain B	Fixed	0~127	20
7	Turb Center Frequency	Fixed	0~5	0
8	DCXO Caps/NICAM Center	Fixed	0~114	59
9	DCXO Scaling Control Gain	Fixed	0~7	3
10	Component H-Shift Offset	Fixed	-20~20	-1

6. Video Adjust 5

No	Item	Remark	Varyable Range	Adjust Data
1	System I Output Signal AMP	Fixed	0~1	0
2	Bypass of Chroma Base Band	Fixed	0~1	0
3	Fixed Beam Current	Fixed	0~1	0
4	Fixed eam Current 1	Fixed	0~1	0
5	IF Sensitivity	Fixed	0~1	0
6	Forced Colour ON	Fixed	0~1	0
7	Enable Digital Interface	Fixed	0~1	0
8	Vertical Overscan	Fixed	0~1	0
9	Beam Current Limiting	Fixed	0~1	0
10	Comb Filter	Fixed	0~4	0
11	De Interlace	Fixed	0~1	0
12	Chroma Trap Mode	Fixed	0~1	0
13	Black Current Meassure Line	Fixed	0~1	0
14	EHT Tracking Mode	Fixed	0~1	1

7. YC Delay

No	Item	Remark	Varyable Range	Adjust Data
1	PAL Delay	Fixed	0~15	8
2	NTSC Delay	Fixed	0~15	8
3	PAL AV Delay	Fixed	0~15	8
4	NTSC AV Delay	Fixed	0~15	8

8. Others

No	Item	Remark	Varyable Range	Adjust Data
1	Service Blanking	Fixed	0~1	0
2	High Current Levl	Fixed	0~3	1
3	Black Area	Fixed	0~3	2
4	Black Stretch	Fixed	0~2	2
5	OSD Brightness	Fixed	0~31	20
6	PWL Active	Fixed	0~1	1
7	Bypass Peaking Delay	Fixed	0~1	0
8	Ratio Pre & After Shoot	Fixed	0~3	2
9	Ratio Posi & Nega Peaks	Fixed	0~3	1
10	Dynamic Skin	Fixed	0~2	0
11	Gamma & White Stretch	Fixed	0~3	1
12	Video Dependent Coring	Fixed	0~3	2
13	PAL/NTSC Ident Sensitivity	Fixed	0~3	1
14	Comb Filter Diode Clamp	Fixed	0~1	1
15	DC Transfer Ratio	Fixed	0~1	1

9. Bus Stop : Off

10. Checksum : 0000

11. G2 Adjust : Screen Adjust OK/NG/Obove

12. Reset

Added Item

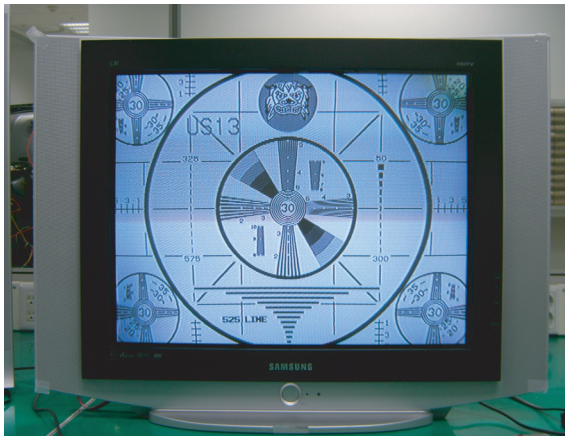
Item	DATA	Var/Fix
White Balance	High: x : 275± 3 y : 275± 3 Y : 40± 3 Low : x : 265± 3 y : 265± 3 Y : 2± 3	White Balance(Standardization Applied)
Screen Voltage	The highest Voltage among RK, GK and BK 180Vp-p-3V	screen voltage

3-4 Service Adjustment

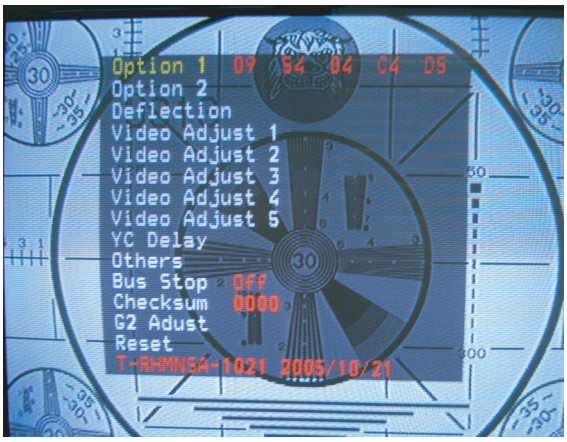
3-4-1 Adjusting the Picture Size

■ Since the K64A chassis includes a deflection adjustment of the Factory Data, adjustments must be performed according to the following procedures when replacing the Main Board.

1. Display the Lion pattern.

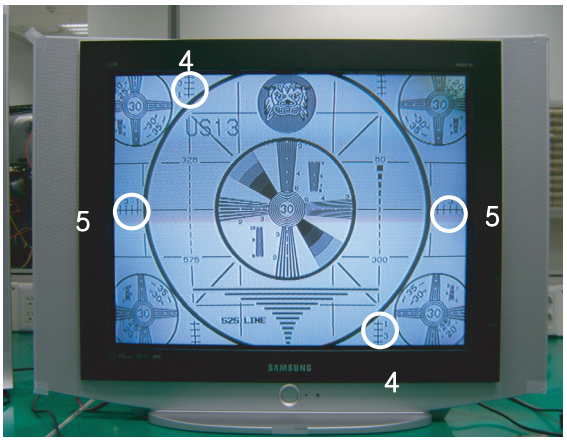


2. Press "Power Off → Mute → 1 → 8 → 2 → Power On" using the remote control and enter Factory Mode.



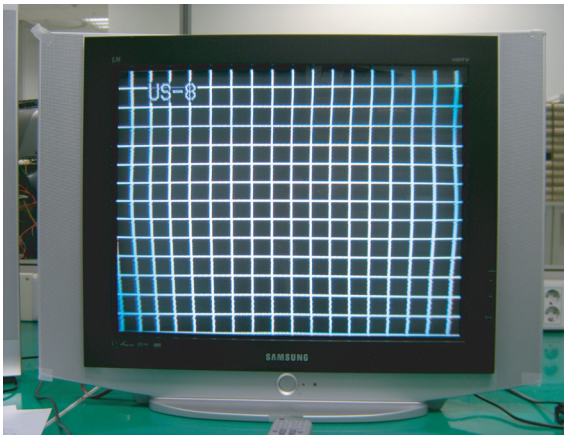
3. Enter Deflection Mode.

4. Adjust the V-AMP, V-SHIFT, H-AMP and H-SHIFT items so that the width becomes 5 and the height becomes 4.



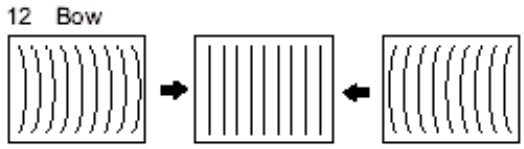
3-4-2 Adjusting the Picture Straight Lines

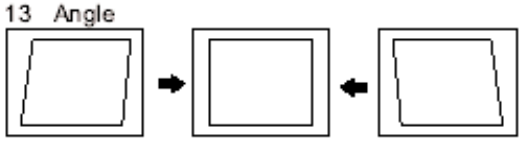
1. Display the Cross Hatch pattern.



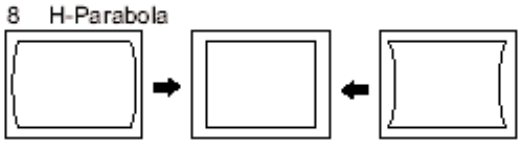
2. Adjust settings other than V-AMP, V-SHIFT, H-AMP and H-SHIFT so that straight lines are displayed without curves.

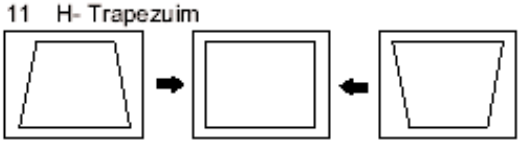
3. Adjust BOW and the Angle settings so that the center line becomes a straight line.



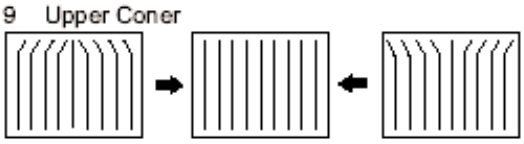


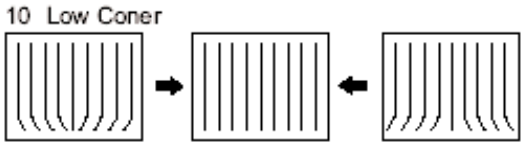
4. Adjust the H-Parabola and H-Trapezium settings so that the left and right lines become straight.



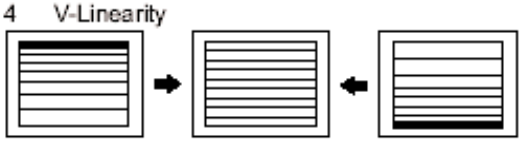


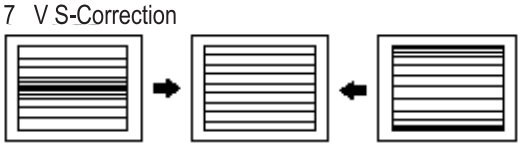
5. Adjust the Upper Corner and the Low Corner settings so that the end of the lines become straight.





6. Adjust the V-Linearity and V-SC settings so that the intervals of the horizontal lines become uniform.





7. When the adjustments are complete, display the Lion pattern and check that the picture size has not been changed. If there is no change, finish the adjustments.

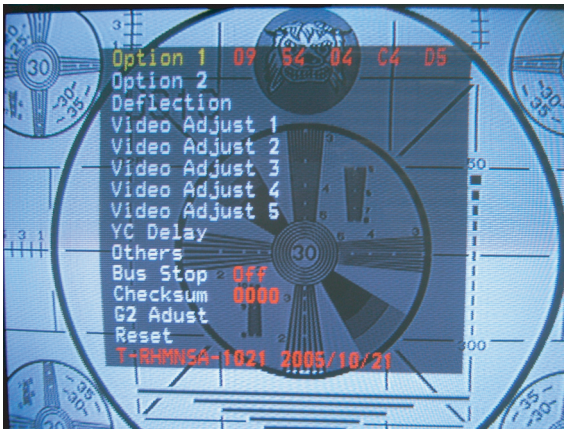
3-5 Software Upgrade

3-5-1 Checking the Version of the Software (Analog SW)

1. To enter Service Mode, press the keys on the remote control according to the following sequence. (in Stand-by status)

   Mute → 1 → 8 → 2 → Power On

2. When entering Service mode, the software information is displayed at the top of the service mode menu OSD.
   ex) T-RHMNSA-1000 20XX/XX/XX

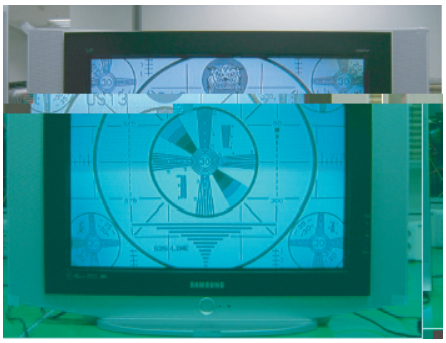


3-6 Replacements & Calibration

3-6-1 Adjusting the Focus

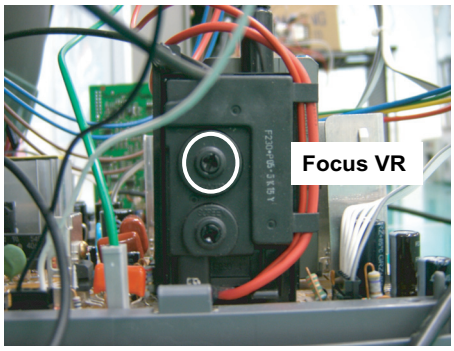
■ When the CRT PCB, FBT or CRT has been replaced, the focus has to be adjusted according to the following procedures.

1. Display the Lion Head pattern.

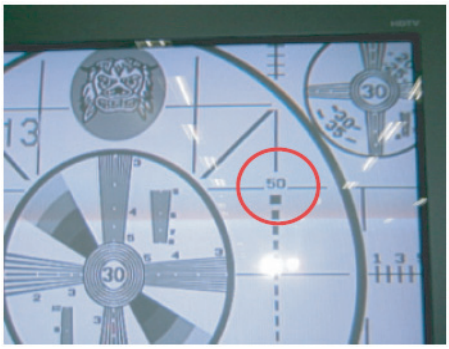


2. Set the Screen Adjustment to "Standard".

3. Turn the Static Focus VR clockwise to the maximum position.
   (End of clockwise direction)



4. Slowly turn the Focus VR counter clockwise so that the indicated point
   (red circle) is the most clearly displayed.



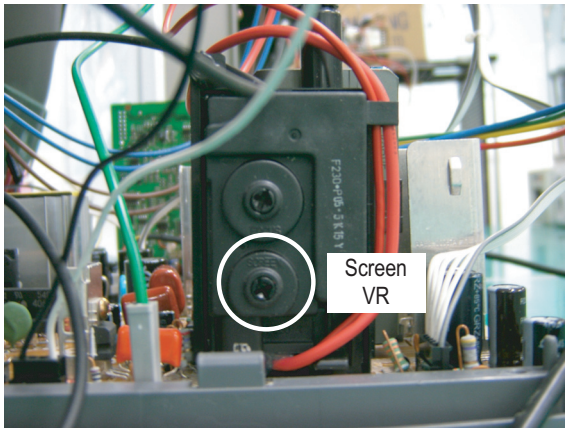
3-6-2 Adjusting the Screen Voltage

1. Select "Power Off → Mute → 1 → 8 → 2 → Power On" to enter Service Mode.

2. Initialize all settings to the values appropriate to the corresponding model.

3. Display the Toshiba pattern.

4. First check IBRM in "G2 Adjust" of Factory and adjust Screen VR until the color of IBRM item turns green.

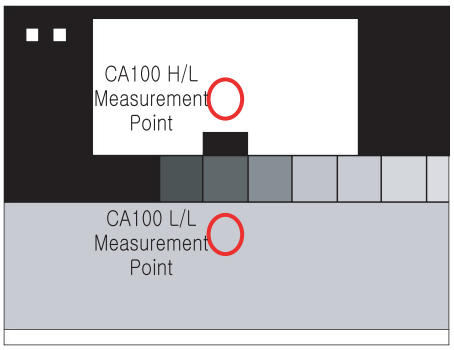


3-6-3 Adjusting the White Balance

1. Select "Power Off →Mute → 1 → 8 → 2 → Power On" to enter Service Mode.

2. Initialize all settings to the values appropriate to the corresponding model.

3. Display the Toshiba pattern and adjust the White Balance using CA100 with the coordinates of the corresponding model.



[CA100]

4. Enter Video Adjust1 of Service Mode. Adjust Low/Light.
   - Adjust Sub Bright to set Y.
   - Adjust B Cutoff to set y.
   - Adjust R Cutoff to set x.

5. Enter Video Adjust1 of Service Mode. Adjust High/Light.
   - Adjust Sub Contrast to set Y.
   - Adjust B Drive to set y.
   - Adjust R Drive to set x.

6. Check Low/Light and readjust it if its value has been changed.

7. If you have readjusted Low/Light, readjust High/Light until the two values are identical to the coordinates of the corresponding model.

※ White Balance Standard Data

No	Item	Data	Required Adjustment
1	White Balance	High : x : 269± 3 y : 274± 3 Y : 42± 3 Low : x : 269± 3 y : 274± 3 Y : 2± 0.2	White Balance (Standardization Applied)

3-6-4 Check List for the Screen Voltage and White Balance Adjustment

1. The Screen Voltage and White Balance are connected each other, and both of them have to be configured to the correct values.

2. Adjust the White Balance after the Screen Voltage was adjusted, and check if the Screen Voltage is normal after adjusting the White Balance.

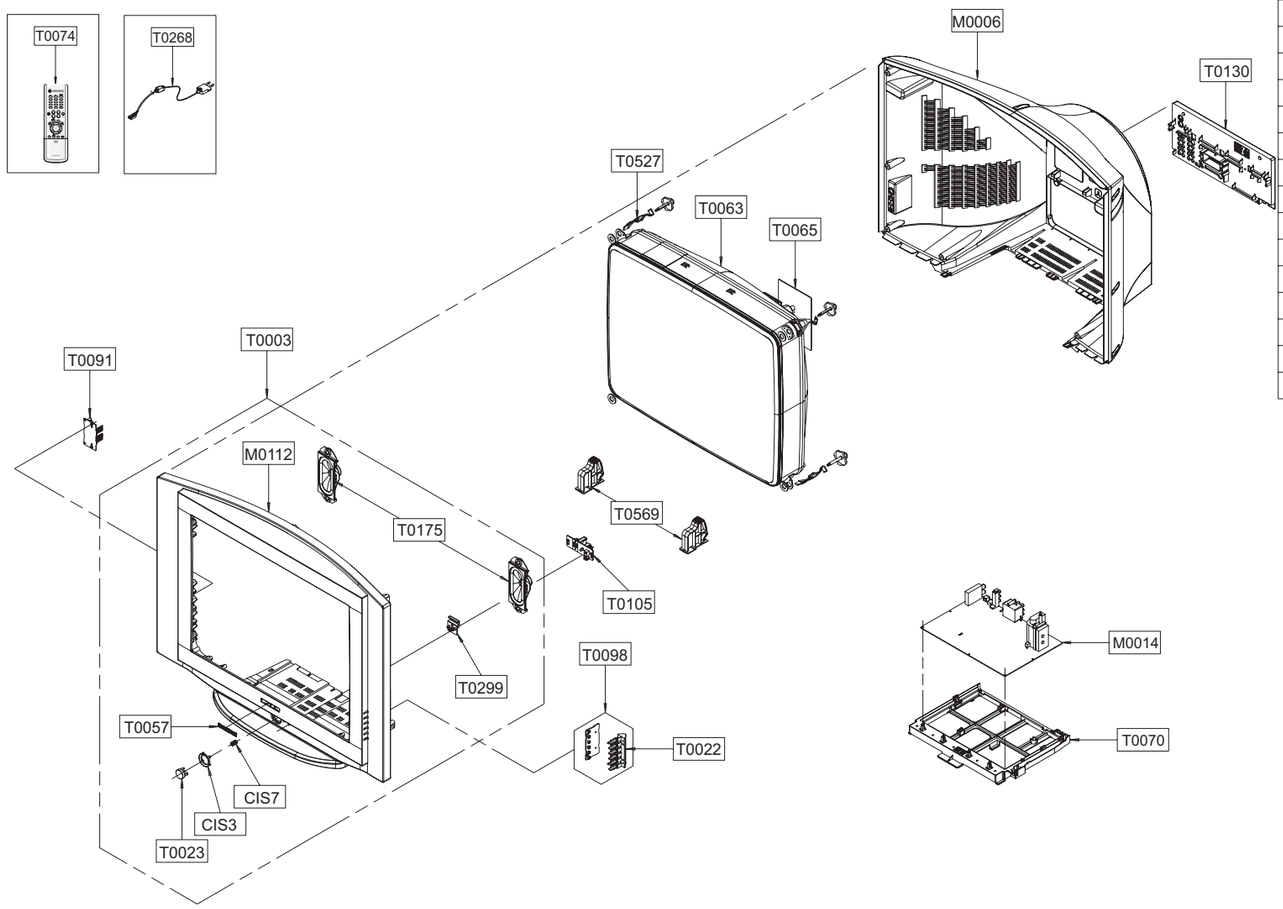
3. If the White Balance is readjusted, check the Screen Voltage again.

4. When the adjustment is finished, check the following checklist.
   - If there is a spot on the screen when turning the TV set off/on, adjust the Screen Voltage again.
   - If there is a ghost line on the screen, adjust the Screen Voltage again.

4. Exploded View & Part List

4-1 TXS2783X/XAA

You can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr



Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
CIS3	BP64-00331B	DECORATION-POWER	PJTV,ABS,HB,GR503,SVM30	1	S.N.A	
CIS7	AA61-60003J	SPRING ETC-CS	-,SUS304,-,-,OD6,N7,OD6,-,	1	S.N.A	
M0006	AA63-01169A	COVER-REAR	29Z30,HIPS,T3.0,V0,BK500,HQ	1	S.A	
M0014	AA94-15772A	ASSY PCB MAIN	29Z30,K64A,NORTH AMERICA,I	1	S.A	
M0112	AA63-01167M	COVER-FRONT	29Z30,HIPS,V0,GR503,SV012P+B	1	S.A	
T0003	AA96-03383M	ASSY COVER P-FRONT	29Z30,SEA,HIPS V0,GR5	1	S.A	
T0022	AA64-01201N	KNOB CONTROL	32Z30,ABS,HB,BLK	1	S.N.A	
T0023	BP64-00326A	KNOB POWER	43T9,ABS,HB,BLK,SVM3012	1	S.A	
T0057	AA64-01062B	BADGE-BRAND	ALL,AL,T1.5,10.6,L65,BLK.SIL	1	S.N.A	
T0063	AA03-00465A	CRT COLOR	A68QFZ893X001,380,1.10,12.0,1.	1	S.A	
T0065	AA94-15776A	ASSY PCB CRT	K54A	1	S.N.A	
T0070	AA61-01424A	HOLDER-CHASSIS	32Z30,HIPS V0,T2.0,G4309,	1	S.N.A	
T0074	AA59-00378A	REMOCON	CORSET2,TM85,39,NTSC,K64A,Export	1	S.A	
T0091	AA94-15113D	ASSY PCB MISC-A/V SIDE	CT-32Z32HD,CORE,K	1	S.A	
T0098	AA94-15114B	ASSY PCB MISC-CONTROL	TXR3079WHX/XAA,COR	1	S.A	
T0105	AA94-15237A	ASSY PCB MISC-TACT S/W	TXR3079WHX/XAA,CO	1	S.A	
T0130	AA96-02913A	ASSY COVER P-TERMINAL BOARD	32Z30,DO,HIP	1	S.A	
T0175	AA96-03164A	ASSY SPEAKER P	8ohm,6*13cm,Z31,10W,SPK+W	1	S.A	
T0268	AA39-10007Y	CBF-POWER CORD	-,EP2/YES,SPT-2 18AWGx2C,	1	S.A	
T0299	AA64-04191A	WINDOW-RMC LED	32Z30,PC CLEAR	1	S.N.A	
T0527	AA65-00061A	CLAMPER CORE-D,COIL	NYLON-66,VO,NTR	4	S.N.A	
T0569	AA61-00813D	SUPPORT-CRT	29Z30(SLIM),HIPS V0,T2.0,GR5	2	S.N.A	

5. Electrical Part List

5-1 TXS2783X/XAA

You can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
		ASSY CHASSIS				
M0017	AA91-09841A	ASSY CHASSIS	TXS2783X/XAA,K64A,CORSET2	1	S.N.A	
T0091	AA94-15113D	ASSY PCB MISC-A/V SIDE	CT-32Z32HD,CORE,K	1	S.A	
C701	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C702	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-,	1	S.A	
C703	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-,	1	S.A	
C704	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
CN701	3711-000577	HEADER-BOARD TO CABLE	BOX,10P,1R,2.5MM,S	1	S.A	
DZ701	0403-000708	DIODE-ZENER	MTZJ13B,12.55-13.21V,500mW,D	1	S.A	
DZ702	0403-000708	DIODE-ZENER	MTZJ13B,12.55-13.21V,500mW,D	1	S.A	
DZ703	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
JA701	3722-001164	JACK-PIN	3P,SN,WH:YE:RE,STRAIGHT	1	S.A	
JK01	3722-000544	JACK-VHS	4P,AG,BLK,STRAIGHT	1	S.A	
L701	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1	S.A	
L702	2701-000168	INDUCTOR-AXIAL	3.3UH,5%,2534	1	S.A	
L703	2701-000168	INDUCTOR-AXIAL	3.3UH,5%,2534	1	S.A	
L704	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1	S.A	
M2893	BP39-00056D	LEAD CONNECTOR	K62A(CORE),UL1185#26,UL/C	1	S.A	
T0091	AA41-01125B	PCB-A/V SIDE	CT-32Z32HD,FR-1,1L,1.6T,245	1	S.N.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.001	S.N.A	
T0569	AA97-15791C	ASSY AUTO-A/V SIDE	CT-32Z32HD,CORE,K62A	1	S.N.A	
T0105	AA94-15237A	ASSY PCB MISC-TACT S/W	TXR3079WHX/XAA,CO	1	S.A	
0	AA41-01124A	PCB-TACT SWITCH	CT-32Z30HD,FR-1,1L,A,1.6	1	S.N.A	
CC01	2401-002291	C-AL	47uF,20%,16V,GP,TP,6.3x5,5	1	S.A	
CN01	3711-001031	HEADER-BOARD TO CABLE	BOX,6P,1R,2.5MM,AN	1	S.A	
DC01	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
DC02	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
DZC01	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1	S.A	
LD02	0601-000262	LED	ROUND,RED,5mm,700nm	1	S.A	
M2893	BP39-00033C	LEAD CONNECTOR	K62A(CORE),UL1007#26,UL/C	1	S.A	
RC01	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
RC02	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RM01	AA32-00012A	Module Remocon	ST,-,-	1	S.A	
SW01	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.001	S.N.A	
	AA97-15910A	ASSY AUTO-TACT S/W	TXR3079WHX/XAA,CORE,K	1	S.N.A	
M0014	AA94-15772A	ASSY PCB MAIN	29Z30,K64A,NORTH AMERICA,I	1	S.A	
C101	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1	S.A	
C102	2401-003578	C-AL	1000uF,20%,10V,GP,TP,8x20mm,5	1	S.A	
C103	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1	S.A	
C104	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1	S.A	
C105	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1	S.A	
C106	2401-000922	C-AL	22uF,20%,16V,GP,TP,5x5,5	1	S.A	
C144	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1	S.A	
C150	2401-000360	C-AL	100uF,20%,50V,GP,TP,8x11.5,5	1	S.A	
C200	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C201	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C202	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C203	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C204	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C205	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C206	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C207	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C208	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C209	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C210	2203-006333	C-CER,CHIP	10000nF,20%,16V,X5R,TP,3216	1	S.A	
C212	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1	S.A	
C214	2203-000681	C-CER,CHIP	0.027nF,5%,50V,C0G,1608	1	S.A	
C215	2203-000681	C-CER,CHIP	0.027nF,5%,50V,C0G,1608	1	S.A	
C216	2203-000552	C-CER,CHIP	0.02nF,5%,50V,C0G,1608	1	S.A	
C218	2402-001128	C-AL,SMD	100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A	
C219	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C220	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C221	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C222	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C223	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C224	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C225	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C226	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C227	2203-000552	C-CER,CHIP	0.02nF,5%,50V,C0G,1608	1	S.A	
C228	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C229	2402-001128	C-AL,SMD	100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A	
C230	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C231	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C232	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C233	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C234	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C235	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C236	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C237	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C238	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
C239	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C240	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C241	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C242	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C243	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C246	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C247	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C249	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C251	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C252	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C253	2402-001081	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A	
C254	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C255	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C256	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C258	2402-001128	C-AL,SMD	100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A	
C260	2402-001128	C-AL,SMD	100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A	
C261	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C262	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C263	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C265	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C266	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C268	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C269	2203-000405	C-CER,CHIP	0.18nF,5%,50V,C0G,1608	1	S.A	
C270	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C271	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C272	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C273	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C274	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C275	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C276	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C277	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C278	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C279	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C280	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C281	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C282	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C283	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C284	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C285	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C286	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C287	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C288	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C289	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C290	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C291	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C292	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C293	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C294	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C295	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C296	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C297	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C298	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C299	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C300	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C301	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C302	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C303	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C304	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C305	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C306	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C307	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C308	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C309	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C310	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C311	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C312	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C313	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C314	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C315	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C316	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C317	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C318	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C319	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C320	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C321	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C322	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C323	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C324	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C325	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C326	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C327	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C328	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C329	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C330	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C331	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C332	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C333	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C334	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C335	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C336	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C337	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C338	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C339	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C340	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608	1	S.A	
C341	2402-001081	C-AL,SMD	100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A	
C342	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C343	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C344	2203-000426	C-CER,CHIP	0.018nF,5%,50V,C0G,1608	1	S.A	
C345	2203-000715	C-CER,CHIP	3.3nF,10%,50V,X7R,1608	1	S.A	
C346	2409-001029	C-ORGANIC	120uF,20%,6.3V,WT,TP,10.3x10.3	1	S.A	
C347	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C355	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C356	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C357	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C358	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C359	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C360	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C361	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C362	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C363	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C364	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C365	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C366	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C381	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C382	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C383	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C384	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C385	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C386	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C387	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C388	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C389	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C390	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C391	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C392	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C395	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C398	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C400	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C401	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C402	2401-000302	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1	S.A	
C403	2201-000599	C-CERAMIC,DISC	0.56NF,10%,500V,Y5P,TP,5.	1	S.A	
C404	2305-000382	C-FILM,LEAD-PEF	4.7nF,5%,400V,TP,-,5mm	1	S.A	
C406	2301-001257	C-FILM,LEAD	640nF,5%,400V,BK,26x14.5x24,	1	S.A	
C407	2401-002268	C-AL	2.2uF,20%,250V,LZ,TP,8X11,5	1	S.A	
C408	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C409	2401-001397	C-AL	470uF,20%,25V,GP,TP,10x16,5	1	S.A	
C410	2401-002288	C-AL	470uF,20%,25V,WT,TP,10x20,5	1	S.A	
C411	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1	S.A	
C412	2401-001527	C-AL	47uF,20%,250V,HR,TP,13x25mm,5m	1	S.A	
C413	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1	S.A	
C414	2301-000213	C-FILM,LEAD-PEF	220nF,5%,250V,TP,21.5x11	1	S.A	
C415	2301-001259	C-FILM,LEAD-PPF	100nF,5%,400V,TP,19x8x16	1	S.A	
C416	2301-001420	C-FILM,LEAD-PPF	1200nF,5%,400V,BK,31x16.	1	S.A	
C420	2305-000237	C-FILM,LEAD-PEF	1uF,5%,63V,TP,7.5x15.5mm	1	S.A	
C421	2305-000237	C-FILM,LEAD-PEF	1uF,5%,63V,TP,7.5x15.5mm	1	S.A	
C424	2201-000132	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5	1	S.A	
C438	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C439	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C441	2203-006333	C-CER,CHIP	10000nF,20%,16V,X5R,TP,3216	1	S.A	
C442	2203-006333	C-CER,CHIP	10000nF,20%,16V,X5R,TP,3216	1	S.A	
C443	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C444	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C445	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C446	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C447	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C450	2203-000815	C-CER,CHIP	0.033nF,5%,50V,C0G,1608	1	S.A	
C451	2203-000815	C-CER,CHIP	0.033nF,5%,50V,C0G,1608	1	S.A	
C452	2203-001071	C-CER,CHIP	0.056nF,5%,50V,C0G,1608	1	S.A	
C453	2203-001071	C-CER,CHIP	0.056nF,5%,50V,C0G,1608	1	S.A	
C454	2203-001071	C-CER,CHIP	0.056nF,5%,50V,C0G,1608	1	S.A	
C455	2203-000626	C-CER,CHIP	0.022nF,5%,50V,C0G,1608	1	S.A	
C456	2203-000626	C-CER,CHIP	0.022nF,5%,50V,C0G,1608	1	S.A	
C457	2203-001071	C-CER,CHIP	0.056nF,5%,50V,C0G,1608	1	S.A	
C458	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C459	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C460	2203-000715	C-CER,CHIP	3.3nF,10%,50V,X7R,1608	1	S.A	
C461	2409-001029	C-ORGANIC	120uF,20%,6.3V,WT,TP,10.3x10.3	1	S.A	
C462	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C463	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C464	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C465	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C466	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C467	2203-000998	C-CER,CHIP	0.047nF,5%,50V,C0G,1608	1	S.A	
C470	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,1608	1	S.A	
C471	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,1608	1	S.A	
C500	2402-001178	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
C501	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
C502	2402-001178	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
C607	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C608	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C612	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1	S.A	
C613	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1	S.A	
C615	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
C620	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1	S.A	
C621	2401-003139	C-AL	1000uF,20%,25V,WT,TP,10*20,5mm	1	S.A	
C627	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C629	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C638	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C642	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C643	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C644	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1	S.A	
C705	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1	S.A	
C801	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1	S.A	
C803	2401-002251	C-AL	470uF,20%,200V,GP,BK,25x40mm,1	1	S.A	
C806	2306-000112	C-FILM,LEAD-PPF	100nF,20%,250V,BK,-,15mm	1	S.A	
C807	2301-001342	C-FILM,LEAD-PPF	1.5nF,5%,800V,TP,15x6.5x	1	S.A	
C808	2401-001585	C-AL	47uF,20%,50V,WT,TP,8x11.5,5	1	S.A	
C810	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1	S.A	
C812	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1	S.A	
C815	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	S.A	
C817	2401-000703	C-AL	2200uF,20%,25V,GP,-,12.5x25mm,	1	S.A	
C818	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1	S.A	
C819	2401-000689	C-AL	2200uF,20%,16V,GP,TP,13x25,5	1	S.A	
C820	2201-000984	C-CERAMIC,DISC	0.68nF,10%,2000V,Y5P,-,9x	1	S.A	
C821	2401-000262	C-AL	100uF,20%,160V,HR,TP,16x25,7.5	1	S.A	
C822	2401-000262	C-AL	100uF,20%,160V,HR,TP,16x25,7.5	1	S.A	
C823	2201-000291	C-CERAMIC,DISC	1NF,10%,500V,Y5P,TP,7.5X3	1	S.A	
C824	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1	S.A	
C825	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	S.A	
C826	2401-000302	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1	S.A	
C827	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1	S.A	
C828	2201-000374	C-CERAMIC,DISC	0.22NF,5%,50V,C0G,TP,10.5	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C843	2301-000192	C-FILM,LEAD-PEF	1nF,5%,50V,TP,5.3x10mm,5	1	S.A	
C844	2301-000356	C-FILM,LEAD-PEF	47nF,5%,50V,TP,7.5x4.0x6	1	S.A	
C845	2201-000599	C-CERAMIC,DISC	0.56NF,10%,500V,Y5P,TP,5.	1	S.A	
C846	2401-000689	C-AL	2200uF,20%,16V,GP,TP,13x25,5	1	S.A	
C888	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1	S.A	
C905	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	S.A	
C906	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1	S.A	
C924	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1	S.A	
CA001	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA002	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA003	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA004	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A	
CA005	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A	
CA006	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA007	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA008	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA009	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,1608	1	S.A	
CA010	2402-001158	C-AL,SMD	1UF,20%,50V,WT,TP,4X5.2MM	1	S.A	
CA011	2203-006170	C-CER,CHIP	220nF,10%,16V,X7R,1608	1	S.A	
CA012	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA013	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
CA014	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
CA015	2306-000131	C-FILM,LEAD-PPF	150nF,5%,250V,TP,19x16x7	1	S.A	
CA016	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
CA017	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	S.A	
CA018	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA019	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
CA020	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA021	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA022	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA023	2402-001158	C-AL,SMD	1UF,20%,50V,WT,TP,4X5.2MM	1	S.A	
CA024	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA025	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA026	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA027	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA028	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA029	2203-000726	C-CER,CHIP	3.9nF,10%,50V,X7R,1608	1	S.A	
CA030	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,1608	1	S.A	
CA031	2402-001019	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	1	S.A	
CA033	2402-000130	C-AL,SMD	2.2uF,20%,50V,GP,TP,4.3x4.3x5.	1	S.A	
CA034	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA035	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA036	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA037	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA039	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA040	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA041	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA042	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA043	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA044	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA045	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA046	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA047	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA048	2402-001019	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	1	S.A	
CA049	2402-001019	C-AL,SMD	2.2uF,20%,35V,GP,TP,3.3x3.3x5.	1	S.A	
CA050	2402-001034	C-AL,SMD	22UF,20%,35V,GP,TP,6.6X6.6X5.4	1	S.A	
CA051	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA052	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA053	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA054	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA055	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA056	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA057	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA058	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA059	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA060	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA061	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
CA065	2402-001158	C-AL,SMD	1UF,20%,50V,WT,TP,4X5.2MM	1	S.A	
CA066	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA067	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA068	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A	
CA069	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA070	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA071	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA072	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA073	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	1	S.A	
CA074	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
CA075	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	S.A	
CA076	2402-001006	C-AL,SMD	4.7uF,20%,25V,GP,TP,3.6x6.3x3.	1	S.A	
CA077	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CA078	2402-001259	C-AL,SMD	220uF,20%,16V,WT,REEL,8X10	1	S.A	
CA079	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4	1	S.A	
CA080	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA081	2203-005533	C-CER,CHIP	1000nF,20%,6.3V,X7R,TP,1608	1	S.A	
CA084	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,1608	1	S.A	
CA085	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,1608	1	S.A	
CA086	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	S.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS3	AA40-00150A	TUNER	THPC4111FG47A(S),THPC4111FG47A(S),	1	S.A	
CN08	3711-000057	HEADER-BOARD TO CABLE	BOX,3P,1R,2.5MM,AN	1	S.A	
CN10	3711-000570	HEADER-BOARD TO CABLE	BOX,10P,1R,2.5MM,A	1	S.A	
CN501A	3711-001111	HEADER-BOARD TO CABLE	BOX,8P,1R,2.5MM,AN	1	S.A	
CN502	3711-002645	HEADER-BOARD TO CABLE	BOX,6P,1R,2.5mm,ST	1	S.A	
CN600	3711-003495	HEADER-BOARD TO BOARD	NOWALL,34P,2R,2.54	1	S.A	
CN601	3711-003043	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,ST	1	S.A	
CN900	3711-000058	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,AN	1	S.A	
CN901	3711-001038	HEADER-BOARD TO CABLE	BOX,6P,1R,2.5mm,ST	1	S.A	
CN902	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRA	1	S.A	
CN906	3707-001071	CONNECTOR-OPTICAL	PLUG,SM,0dB,4.4/2.0mm	1	S.A	
CN909	AA37-00001A	CONNECTOR-FBT FIX PIN	JM-3500,CPTTV,0.36	1	S.A	
CR02S	2401-000603	C-AL	1UF,20%,50V,GP,TP,5X11,2	1	S.A	
CR03S	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1	S.A	
⚠ CR402S	2306-000330	C-FILM,LEAD-PPF	7.7NF,3%,1.6KV,BK,28.5X1	1	S.A	
⚠ CR403S	2306-000327	C-FILM,LEAD-PPF	6.3nF,3%,1.6KV,TP,28.5x1	1	S.A	
⚠ CR404S	2301-001065	C-FILM,LEAD-PPF	47nF,5%,630V,TP,19x15.5x	1	S.A	
⚠ CR405S	2301-001338	C-FILM,LEAD-OTHER	0.68NF,5%,1.6KV,BK,28X	1	S.A	
⚠ CR406S	2301-001091	C-FILM,LEAD-PPF	470nF,5%,400V,BK,26x21.5	1	S.A	
CT501	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	S.A	
CT502	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	S.A	
CT503	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1	S.A	
⚠ CX801S	2306-000321	C-FILM,LEAD-PPF	470NF,20%,275V,BK,31X11X	1	S.A	
⚠ CX802S	2306-000318	C-FILM,LEAD-PPF	220nF,20%,275V,BK,26x7x1	1	S.A	
⚠ CY802S	2201-002002	C-CERAMIC,DISC	4.7NF,20%,400V,Y5U,BK,16X	1	S.A	
D001	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D002	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D003	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D004	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D005	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D006	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D007	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D008	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-3	1	S.A	
D101	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
D202	0406-001172	DIODE-TVS	CDS3C30GTH,48V,0W,SMD	1	S.A	
D203	0406-001172	DIODE-TVS	CDS3C30GTH,48V,0W,SMD	1	S.A	
D204	0402-001098	DIODE-RECTIFIER	SK34,40V,3A,SMC,TP	1	S.A	
D300	0402-001098	DIODE-RECTIFIER	SK34,40V,3A,SMC,TP	1	S.A	
D303	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1	S.A	
D312	0403-000620	DIODE-ZENER	RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A	
D313	0403-000620	DIODE-ZENER	RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A	
D401	0402-000537	DIODE-RECTIFIER	RH1A,600V,0.6A,DO-204AC,	1	S.A	
D402	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1	S.A	
D403	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1	S.A	
D404	0402-001599	DIODE-RECTIFIER	DGP30L,1500,3A,DO-201AD(	1	S.A	
D405	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,T	1	S.A	
D406	0402-000540	DIODE-RECTIFIER	RU20A,600V,1.5A,-,TP	1	S.A	
D407	0402-000540	DIODE-RECTIFIER	RU20A,600V,1.5A,-,TP	1	S.A	
D408	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-	1	S.A	
D409	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
D415	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1	S.A	
D606	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
D631	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
⚠ D801S	0402-000549	DIODE-BRIDGE	RBV606,600V,6A,SIP-4,BK	1	S.A	
D803	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1	S.A	
D804	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1	S.A	
D805	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1	S.A	
D806	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1	S.A	
D807	0402-001604	DIODE-RECTIFIER	MUR420,200V,4A,DO-201AD,	1	S.A	
D808	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
D809A	AA96-00243D	ASSY HEAT SINK P	D06U20S,AA62-00045B,BRI	1	S.N.A	
D811	0402-001603	DIODE-RECTIFIER	MUR480E,800V,4A,DO-201AD	1	S.A	
D813	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	1	S.A	
DC100	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1	S.A	
DL100	2701-001032	INDUCTOR-AXIAL	100UH,10%,4514	1	S.A	
⚠ DR01S	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1	S.A	
DU410	1201-000010	IC-OP AMP	2030,PENTAWATT,5P,-,SINGLE,-,C	1	S.A	
DZ002	0403-000314	DIODE-ZENER	RLZJ9.1B,8.8-9.3V,500MW,LL-3	1	S.A	
DZ003	0403-000620	DIODE-ZENER	RLZ5.6B,5.45-5.73V,500mW,LL-	1	S.A	
DZ004	0403-000314	DIODE-ZENER	RLZJ9.1B,8.8-9.3V,500MW,LL-3	1	S.A	
DZ005	0403-000746	DIODE-ZENER	RLZ3.9B,3.89-4.16V,500mW,LL-	1	S.A	
DZ201	0403-001317	DIODE-ZENER	MTZJ3.0B,3.01-3.22V,500mW,DO	1	S.A	
DZ242	0403-001318	DIODE-ZENER	MTZJ4.3B,4.17-4.43V,500mW,DO	1	S.A	
DZ301	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1	S.A	
DZ302	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1	S.A	
DZ303	0403-001221	DIODE-ZENER	UZ39BSB,35.36-37.19V,500mW,D	1	S.A	
DZ305	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1	S.A	
DZ306	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1	S.A	
DZ406	0403-000367	DIODE-ZENER	UZ7.5BSC,7.3-7.7V,500mW,DO-3	1	S.A	
DZ605	0403-000714	DIODE-ZENER	MTZJ3.3B,3.32-3.53V,500mW,DO	1	S.A	
DZ713	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
DZ714	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
DZ717	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
DZ800	0403-000510	DIODE-ZENER	MTZJ6.2B,5.96-6.27V,500mW,DO	1	S.A	
DZ802	0403-000717	DIODE-ZENER	MTZJ5.1B,4.94-5.2V,500mW,DO-	1	S.A	
DZ804	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
DZ807	0403-000718	DIODE-ZENER	MTZJ6.8B,6.52-6.79V,500mW,DO	1	S.A	
DZ810	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
DZ811	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1	S.A	
DZ812	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1	S.A	
DZ813	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
DZ814	0403-001320	DIODE-ZENER	MTZJ6.2C,6.16-6.4V,500mW,DO-	1	S.A	
DZ815	0403-001321	DIODE-ZENER	MTZJ6.8C,6.7-6.97V,500mW,DO-	1	S.A	
DZ816	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1	S.A	
DZ818	0403-001322	DIODE-ZENER	MTZJ8.2B,7.78-8.19V,500mW,DO	1	S.A	
DZ819	0403-000714	DIODE-ZENER	MTZJ3.3B,3.32-3.53V,500mW,DO	1	S.A	
DZ901	0403-000719	DIODE-ZENER	MTZJ7.5B,7.11-7.44V,500mW,DO	1	S.A	
DZ902	0403-000719	DIODE-ZENER	MTZJ7.5B,7.11-7.44V,500mW,DO	1	S.A	
DZ903	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
DZ904	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
DZ905	0403-001317	DIODE-ZENER	MTZJ3.0B,3.01-3.22V,500mW,DO	1	S.A	
⚠ DZR01S	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500mW,DO-3	1	S.A	
EL402	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL403	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL407	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL800	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL801	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL802	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL803	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EY305	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY400	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY401	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY402	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY403	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY404	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY405	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY406	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY407	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY408	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY409	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY410	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY411	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY412	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY413	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY414	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY415	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY416	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY417	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY418	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY419	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY420	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY421	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY422	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY423	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY424	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY425	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY426	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
EY427	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY428	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY429	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY430	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY431	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY432	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY433	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY434	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY450	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY600	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY601	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY603	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY604	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY800	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY801	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8011	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8012	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8013	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8014	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8015	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8016	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8017	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY8018	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY802	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY803	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY804	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY805	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY806	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY807	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY808	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY809	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY810	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY811	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY812	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY813	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY814	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY815	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY816	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY817	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY818	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY819	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY820	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY821	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY822	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY823	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY824	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY825	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY826	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY827	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY828	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY830	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY831	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY832	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
EY833	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1	S.A	
F101	2901-000297	FILTER-EMI ON BOARD	-,3A,-,-,3.5x5,TP,-	1	S.A	
F101	2901-000297	FILTER-EMI ON BOARD	-,3A,-,-,3.5x5,TP,-	1	S.A	
F801A	3602-000114	FUSE-HOLDER	-,-,30mohm	1	S.A	
F801B	3602-000114	FUSE-HOLDER	-,-,30mohm	1	S.A	
⚠ FD801S	3601-001086	FUSE-AXIAL LEAD	125V,5A,FAST-ACTING,GLAS	1	S.A	
FD802	3601-000297	FUSE-CARTRIDGE	250V,5A,TIME-LAG,GLASS,5.	1	S.A	
⚠ FD802S	3601-001163	FUSE-AXIAL LEAD	125V,7A,-,EPOXY,2.4X7.1M	1	S.A	
FN1	3711-002643	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,ST	1	S.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
G101	3301-000316	CORE-FERRITE BEAD	120ohm,2012,TP,-,-	1	S.N.A	
GT101	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT102	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT103	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT104	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT301	AA60-40012F	PIN-GT	4P,2.36PI,6/12/14mm,NYLON66,LOCKI	1	S.N.A	
GT404	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT801	AA60-40012G	PIN-GT	3P,2.36PI,10/5mm,NYLON66,LOCKING	1	S.N.A	
GT804	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT805	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT806	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
H/S	0502-001264	TR-POWER	2SC5936,NPN,40000mW,TOP-3E,ST,5	1	S.A	
IC01	BN09-00013A	IC MICOM MTP	TDA15001H-MTP,MANET,128,5.5	1	S.A	
IC012	1203-001217	IC-POSI.ADJUST REG.	431,TO-92,3P,4.58MIL	1	S.A	
IC062	1203-003184	IC-MULTI REG.	SI-3003KWM-TL,DPAK,5P,6.6X	1	S.A	
IC063	AA13-20004W	IC HYBRID	-,PAP103T,SIP,6P,PRE-AMP,TP	1	S.A	
IC063	AA13-00114A	IC HYBRID	EMPEROR,7,-20~+125,FORMING,18A	1	S.A	
IC104	0801-002270	IC-CMOS LOGIC	74LCX16373,LATCH,TSSOP,48P	1	S.A	
IC104	0801-002709	IC-CMOS LOGIC	74HC373,D FLIP-FLOP,TSSOP,	1	S.A	
IC107	1002-001399	IC-D/A CONVERTER	PCM1754,24BIT,SSOP,16P,	1	S.A	
IC112	1103-001147	IC-EEPROM	24256,256Kbit,32Kx8Bit,SOP,8P,	1	S.A	
IC112	1103-001211	IC-EEPROM	24C16,2Kx8Bit,DIP,8P,10.16x7.1	1	S.A	
IC113	1105-001571	IC-DRAM	K4D551638F,4Mx16x4Bit,TSOP(II),6	1	S.A	
IC113	1105-001571	IC-DRAM	K4D551638F,4Mx16x4Bit,TSOP(II),6	1	S.A	
IC115	1107-001612	IC-FLASH MEMORY	S29JL064M,64Mbit,8Mx8/4M	1	S.A	
IC200	1204-002549	IC-DECODER	215S48AGA21HG,BGA,640P,31x31m	1	S.A	
IC204	1006-001266	IC-LINE TRANSCEIVER	SP3232EEY,TSSOP,16P,	1	S.A	
IC301	AA96-00623F	ASSY HEAT SINK P	LA78045,SCREW,AA62-0005	1	S.N.A	
IC601	BP96-00418B	ASSY HEAT SINK P	AA62-30182F,SCREW,TDA72	1	S.N.A	
⚠ IC801S	AA96-50371S	ASSY HEAT SINK P	AA62-30181H,SCREW,STR-X	1	S.N.A	
ICT501	BH99-00007T	ASSY HEAT/SINK	BH62-00007A,SCREW,TDA2030	1	S.N.A	
J100	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
JA201	3722-002081	JACK-EAR PHONE	5P/2C,-,SnPb,L-BLU,-	1	S.A	
JA701A	3722-002445	JACK-PIN	8P,NI,YEL/WHT/RED,ANGLE	1	S.A	
JA702	3722-002425	JACK-PIN	3P,NI,YEL/RED/WHT,STRAIGHT	1	S.A	
JA703	3722-001051	JACK-USB	4P/1C,AU,BLK,ANGLE,A TYPE	1	S.A	
L102	2701-000116	INDUCTOR-AXIAL	10UH,10%,4298	1	S.A	
L103	2701-000116	INDUCTOR-AXIAL	10UH,10%,4298	1	S.A	
L107	2701-000116	INDUCTOR-AXIAL	10UH,10%,4298	1	S.A	
L203	BN27-00008A	COIL CHOKE-SMD	SMD12*12*8.5,GH15/17PS,22	1	S.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L300	BN27-00008A	COIL CHOKE-SMD	SMD12*12*8.5,GH15/17PS,22	1	S.A	
L303B	2701-001040	INDUCTOR-AXIAL	10UH,10%,4514	1	S.A	
L424	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1	S.A	
L607	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
L608	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
L705	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
L706	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
L808	2701-001030	INDUCTOR-AXIAL	43UH,10%,4514	1	S.A	
L901	2701-001040	INDUCTOR-AXIAL	10UH,10%,4514	1	S.A	
L911	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1	S.A	
LC701	2201-000119	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,TP,	1	S.A	
LL701	2701-001040	INDUCTOR-AXIAL	10UH,10%,4514	1	S.A	
LR701	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
LR702	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1	S.A	
⚠ LX801S	AA29-00012A	FILTER LINE NOISE	CS29A6PF8X/HAC,-,0.1MA	1	S.A	
⚠ LX802S	AA29-00011A	FILTER LINE NOISE	CZ32W8,-,0.20MAX,1.5KV	1	S.A	
M0014	AA97-16454A	ASSY AUTO-MAIN	29Z30,K64A,NORTH AMERICA,	1	S.N.A	
M0018	AA97-16572A	ASSY MICOM	T_CR2NUS5_0010,K64A,20060122	1	S.N.A	
M0018	AA97-16573A	ASSY MICOM	T_CR2NUS0_0006,K64A,20060120	1	S.A	
M0081	6003-000335	SCREW-TAPTITE	RH,+,2S,M3,L8,ZPC(YEL),SWR	1	S.N.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,2S,M3,L6,ZPC(YEL),SWR	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SW	1	S.N.A	
M0081	6003-000335	SCREW-TAPTITE	RH,+,2S,M3,L8,ZPC(YEL),SWR	1	S.N.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,2S,M3,L6,ZPC(YEL),SWR	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SW	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(YEL),SW	1	S.N.A	
M0107	AA61-10068A	BRACKET-PCB	M2160,SPTE,T0.3,-,-,-,-	1	S.N.A	
M0107	AA61-10068A	BRACKET-PCB	M2160,SPTE,T0.3,-,-,-,-	1	S.N.A	
M0107	AA61-10068A	BRACKET-PCB	M2160,SPTE,T0.3,-,-,-,-	1	S.N.A	
MC301	2301-000247	C-FILM,LEAD-PEF	33nF,5%,50V,TP,8.1x4.5x1	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
MC302	2201-000132	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5	1	S.A	
MC303	2401-000360	C-AL	100uF,20%,50V,GP,TP,8x11.5,5	1	S.A	
MC304	2401-000365	C-AL	100uF,20%,50V,WT,TP,10x12.5mm,	1	S.A	
MC305	2305-000285	C-FILM,LEAD-PEF	220NF,5%,100V,TP,10.5X5.	1	S.A	
MC306	2305-000624	C-FILM,LEAD-PEF	330nF,10%,100V,TP,-,5mm	1	S.A	
MC401	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1	S.A	
MC455	2301-000342	C-FILM,LEAD-PEF	2.2nF,5%,50V,TP,7.4x3.9x	1	S.A	
MC703	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1	S.A	
MC704	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1	S.A	
MCN01	3711-003495	HEADER-BOARD TO BOARD	NOWALL,34P,2R,2.54	1	S.A	
MCN02	3711-003495	HEADER-BOARD TO BOARD	NOWALL,34P,2R,2.54	1	S.A	
MDZ701	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
MDZ702	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
MDZ703	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
ML701	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
ML703	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1	S.A	
MR200	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
MR201	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
MR205	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
MR302	2004-001371	R-METAL(S)	1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	1	S.A	
MR303	2008-001013	R-FUSIBLE(S)	1.2ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
MR304	2008-001015	R-FUSIBLE(S)	1.5ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
MR305	2004-001371	R-METAL(S)	1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	1	S.A	
MR306	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.4MM	1	S.A	
MR309	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1	S.A	
MR310	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1	S.A	
MR311	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
MR401	2001-001070	R-CARBON(S)	120OHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
MR426	2003-000540	R-METAL OXIDE(S)	1Kohm,5%,2W,AF,TP,4x12m	1	S.A	
P803T	1404-001276	THERMISTOR-PTC	1.5OHM,+30/-20%,110V,140V	1	S.A	
⚠ PC801S	0604-001032	PHOTO-COUPLER	TR,170-260%,300mW,DIP-4,ST	1	S.A	
PCB	AA41-01200A	PCB SUB-MICOM	TX2983,FR-4,1L,A,1.6T,240X	1	S.N.A	
PCB	AA41-01202A	PCB-DIGITAL BOARD	ACT29KU,FR-4,6,1.0,1.2	1	S.N.A	
Q401	AA96-00624J	ASSY HEAT SINK P	SCREW,AA62-00057A,C5936	1	S.N.A	
Q403	0502-001007	TR-POWER	KSC2073-H2,NPN,25W,TO-220,ST,6	1	S.A	
Q404	BP96-01486A	ASSY HEAT SINK P	AA62-30182H,SCREW,FQP63	1	S.N.A	
Q407	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1	S.A	
Q409	0505-001723	FET-SILICON	FQP630TSTU,N,200V,9A,0.4OHM,	1	S.A	
Q802	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1	S.A	
Q804	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1	S.A	
Q805	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1	S.A	
Q806	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1	S.A	
QA001	0501-000344	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-	1	S.A	
QA002	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23	1	S.A	
QA003	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23	1	S.A	
QA004	0501-000344	TR-SMALL SIGNAL	KSC1623-G,NPN,200mW,SOT-	1	S.A	
QA005	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23	1	S.A	
QA006	0501-000280	TR-SMALL SIGNAL	KSA1182,PNP,150MW,SOT-23	1	S.A	
QA007	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-	1	S.A	
QA011	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-	1	S.A	
QA012	0501-000342	TR-SMALL SIGNAL	KSC1623-Y,NPN,200mW,SOT-	1	S.A	
⚠ QR01S	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,T	1	S.A	
R102	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R105	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R106	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R108	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R109	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R110	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R167	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R200	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R201	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R202	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R203	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R204	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R205	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R206	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R207	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R208	2007-007797	R-CHIP	44.2ohm,1%,1/10W,TP,1608	1	S.A	
R209	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R210	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R211	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R212	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R213	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R216	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R217	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R218	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R219	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	

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R220	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R222	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R223	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R224	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R226	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R227	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R230	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R231	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R233	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R234	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R235	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R236	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R239	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R240	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R242	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R243	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R244	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R245	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R246	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R247	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R248	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R250	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R253	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R254	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R255	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R256	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R257	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R258	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R259	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R260	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R262	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R263	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R264	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R265	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R268	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R269	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R270	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R272	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R273	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R274	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R275	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R276	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R279	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R280	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R283	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R287	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R288	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R289	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R300	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R301	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R302	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R303	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R304	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R305	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R306	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R307	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R308	2007-000052	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	S.A	
R309	2007-000083	R-CHIP	3Kohm,5%,1/10W,TP,1608	1	S.A	
R310	2007-000279	R-CHIP	100Kohm,1%,1/4W,TP,3216	1	S.A	
R311	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R312	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
R313	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R314	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R315	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R316	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R317	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R318	2007-000828	R-CHIP	39Kohm,1%,1/10W,TP,1608	1	S.A	
R319	2007-002900	R-CHIP	11Kohm,1%,1/10W,TP,1608	1	S.A	
R320	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R321	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R322	2007-000803	R-CHIP	36Kohm,1%,1/10W,TP,1608	1	S.A	
R323	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R324	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R326	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
R336	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R337	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R338	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R339	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R342	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R348	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R349	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R350	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R351	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R352	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R353	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R354	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R355	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R356	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R358	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R359	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R360	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R361	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R362	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R363	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R364	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R365	2007-000821	R-CHIP	390ohm,1%,1/10W,TP,1608	1	S.A	
R366	2007-000821	R-CHIP	390ohm,1%,1/10W,TP,1608	1	S.A	
R372	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R375	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R376	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R377	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	1	S.A	
R378	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	1	S.A	
R381	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	1	S.A	
R385	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R386	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R387	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R388	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	S.A	
R389	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	1	S.A	
R390	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	1	S.A	
R391	2007-000043	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	S.A	
R392	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R393	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R395	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	S.A	
R396	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	S.A	
R400	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R401	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R402	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.4MM	1	S.A	
R404	2001-001114	R-CARBON(S)	270OHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R405	2001-001153	R-CARBON(S)	47ohm,5%,1/2W,AA,TP,2.4x6.4m	1	S.A	
R407	2003-002151	R-METAL OXIDE	18KOHM,5%,2W,AG,TP,6X16MM	1	S.A	
R409	2004-001987	R-METAL(S)	4.3Kohm,1%,1/2W,AA,TP,2.4x6.4	1	S.A	
R413	2008-000253	R-FUSIBLE(S)	0.47ohm,5%,1W,AF,TP,3.9x10m	1	S.A	
R414	2008-000253	R-FUSIBLE(S)	0.47ohm,5%,1W,AF,TP,3.9x10m	1	S.A	
R418	2008-000292	R-FUSIBLE(S)	3.3ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
R423	2003-001042	R-METAL OXIDE(S)	5.6Kohm,5%,2W,AF,TP,3.9	1	S.A	
R426	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R427	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R430	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R431	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R432	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R433	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	1	S.A	
R450	2008-001023	R-FUSIBLE(S)	3.3ohm,5%,1/2W,AF,TP,2.5x6.	1	S.A	
R451	2004-000531	R-METAL	20Kohm,1%,1/2W,AA,TP,2.3x6.5mm	1	S.A	
R452	2004-001893	R-METAL(S)	22Kohm,1%,1/2W,AA,TP,2.5x6.5m	1	S.A	
R453	2004-001893	R-METAL(S)	22Kohm,1%,1/2W,AA,TP,2.5x6.5m	1	S.A	
R457	2004-001230	R-METAL	75Kohm,1%,1/4W,AA,TP,2.4x6.4mm	1	S.A	
R459	2008-000266	R-FUSIBLE(S)	1ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
R465	2001-001108	R-CARBON(S)	22KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R466	2001-001106	R-CARBON(S)	220KOHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
R467	2004-000310	R-METAL	13Kohm,1%,1/4W,AA,TP,2.4x6.4mm	1	S.A	
R468	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R469	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R472	2004-001899	R-METAL(S)	61.9Kohm,1%,1/2W,AA,TP,2.5x6.	1	S.A	
R500	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	1	S.A	
R506	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608	1	S.A	
R507	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608	1	S.A	
R509	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	1	S.A	
R510	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	1	S.A	
R511	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	1	S.A	
R530	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
R531	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
R601	2008-000205	R-FUSIBLE(S)	10ohm,5%,1/2W,AF,TP,2.5x6.5	1	S.A	
R602	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
R603	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R604	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
R605	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
R606	2001-000837	R-CARBON	51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R607	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R608	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R609	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R620	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R621	2001-000995	R-CARBON	820OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R622	2001-000995	R-CARBON	820OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R623	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R701	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R702	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R705	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R710	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R711	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R733	2001-000568	R-CARBON	27OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R734	2001-000568	R-CARBON	27OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R802	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1	S.A	
R803	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1	S.A	
R804	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1	S.A	
R805	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R807	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R808	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
R809	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
R810	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
R811	2009-001011	R-METAL PLATE	0.18ohm,10%,5W,CL,TP,5x14x	1	S.A	
R815	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R816	2004-001891	R-METAL(S)	133Kohm,1%,1/2W,AA,TP,2.5x6.5	1	S.A	
R817	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R818	2001-001131	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R819	2004-001983	R-METAL(S)	2.49Kohm,1%,1/2W,AA,TP,2.4x6.	1	S.A	
R820	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R821	2004-001891	R-METAL(S)	133Kohm,1%,1/2W,AA,TP,2.5x6.5	1	S.A	
R823	2003-002020	R-METAL OXIDE(S)	56Kohm,5%,2W,AF,TP,3.9x	1	S.A	
R824	2003-002020	R-METAL OXIDE(S)	56Kohm,5%,2W,AF,TP,3.9x	1	S.A	
R825	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1	S.A	
R826	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R827	2008-001011	R-FUSIBLE(S)	0.18ohm,10%,2W,AF,TP,3.9x10	1	S.A	
R828	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1	S.A	
R829	2001-001103	R-CARBON(S)	20KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R830	2001-001103	R-CARBON(S)	20KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R831	2001-001103	R-CARBON(S)	20KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R832	2001-001079	R-CARBON(S)	15OHM,5%,1/2W,AA,TP,2.4X6.4M	1	S.A	
R833	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R836	2001-001138	R-CARBON(S)	390OHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R841	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R895	2001-001152	R-CARBON(S)	47KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R913	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	1	S.A	
R924	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R926	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R930	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R934	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R935	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R936	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R939	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RA001	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
RA002	2007-000503	R-CHIP	2.2ohm,5%,1/10W,TP,1608	1	S.A	
RA003	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
RA004	2007-000503	R-CHIP	2.2ohm,5%,1/10W,TP,1608	1	S.A	
RA005	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA006	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA007	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
RA008	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
RA010	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	1	S.A	
RA011	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA012	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA013	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA014	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	1	S.A	
RA021	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	1	S.A	
RA022	2007-000129	R-CHIP	27Kohm,5%,1/10W,TP,1608	1	S.A	
RA023	2007-001026	R-CHIP	560Kohm,5%,1/10W,TP,1608	1	S.A	
RA027	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA028	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA029	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA030	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	S.A	
RA031	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA032	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
RA033	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA034	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	1	S.A	
RA035	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	1	S.A	
RA036	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA037	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA038	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA039	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA040	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA041	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA042	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA043	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA044	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA045	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA046	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	1	S.A	
RA047	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA048	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA049	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	1	S.A	
RA050	2007-001056	R-CHIP	6.2Kohm,5%,1/10W,TP,1608	1	S.A	
RA053	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
RA054	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
RA055	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	1	S.A	
RA056	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA057	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	1	S.A	
RA058	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA059	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA060	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA061	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA062	2007-000122	R-CHIP	1.2Kohm,5%,1/10W,TP,1608	1	S.A	
RA063	2007-000122	R-CHIP	1.2Kohm,5%,1/10W,TP,1608	1	S.A	
RA064	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA065	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA066	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA067	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	1	S.A	
RA068	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	S.A	
RA069	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA073	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA074	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA075	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA076	2007-000805	R-CHIP	36Kohm,5%,1/10W,TP,1608	1	S.A	
RA077	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA078	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA079	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	1	S.A	
RA080	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	S.A	
RA081	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	1	S.A	
RA082	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	1	S.A	
RA083	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	1	S.A	
RA084	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	1	S.A	
RA085	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA086	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA087	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA088	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA089	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA090	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA091	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA092	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA093	2007-000381	R-CHIP	13Kohm,5%,1/10W,TP,1608	1	S.A	
RA094	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA095	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA096	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA097	2007-000381	R-CHIP	13Kohm,5%,1/10W,TP,1608	1	S.A	
RA098	2007-000381	R-CHIP	13Kohm,5%,1/10W,TP,1608	1	S.A	
RA099	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	1	S.A	
RA100	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	1	S.A	
RA101	2007-000381	R-CHIP	13Kohm,5%,1/10W,TP,1608	1	S.A	
RA102	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA103	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	S.A	
RA104	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA105	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA106	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA107	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA108	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA109	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA110	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA111	2007-000086	R-CHIP	5.6Kohm,5%,1/10W,TP,1608	1	S.A	
RA112	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA116	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
RA117	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
RA118	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	S.A	
RA119	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
RA120	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	S.A	
⚠ RL801S	3501-001053	RELAY-POWER	5Vdc,530mW,10000mA,1FormA,15	1	S.A	
RR01S	2008-000204	R-FUSIBLE(S)	0.22ohm,10%,1/2W,AF,TP,2.5x	1	S.A	
RR02S	2004-000947	R-METAL	43Kohm,1%,1/4W,AA,TP,2.4x6.4mm	1	S.A	
RR03S	2004-001897	R-METAL(S)	43.2Kohm,1%,1/2W,AA,TP,2.5x6.	1	S.A	
RR04S	2004-001164	R-METAL	62Kohm,1%,1/4W,AA,TP,2.4x6.4mm	1	S.A	
RR05S	2004-005054	R-METAL(S)	39KOHM,1%,1/2W,AA,TP,2.4X6.4M	1	S.A	
RR06S	2004-000412	R-METAL	18Kohm,1%,1/4W,AA,TP,2.4x6.4mm	1	S.A	
⚠ RR408S	2004-001390	R-METAL(S)	1Kohm,2%,1/2W,AA,TP,2.4x6.4mm	1	S.A	
RT501	2008-001047	R-FUSIBLE(S)	68ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
RT502	2001-000052	R-CARBON(S)	3.3KOHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
RT503	2001-001126	R-CARBON(S)	300OHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
RT504	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RT505	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RT506	2001-001071	R-CARBON(S)	12KOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
RT507	2001-001040	R-CARBON(S)	0.68OHM,5%,1/2W,AA,TP,2.4X6.	1	S.A	
RT508	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RT509	2008-001047	R-FUSIBLE(S)	68ohm,5%,2W,AF,TP,3.9x10mm	1	S.A	
RW200	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW201	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW203	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW204	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW205	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW206	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW207	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW208	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW210	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW211	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW212	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW213	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW214	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW215	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW216	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW217	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW218	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW219	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW220	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW221	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW222	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW224	2011-000515	R-NET	4.7Kohm,5%,1/16W,L,CHIP,8P,TP,3.2x	1	S.A	
RW225	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW226	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW227	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW228	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
RW301	2011-000881	R-NET	33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A	
⚠ RX801S	2002-001010	R-COMPOSITION	1.8Mohm,5%,1/2W,AA,TP,3.7x	1	S.A	
⚠ RY801S	2002-001012	R-COMPOSITION	8.2Mohm,5%,1/2W,AA,TP,3.7x	1	S.A	
SF101	2904-001107	FILTER-SAW AV	45.75MHz,SIP5K,TP,12.6dB,N	1	S.A	
SF102	2904-001418	FILTER-SAW AV	45.75MHZ,-,ST,-,-,-	1	S.A	
T0010	AA27-00056B	COIL CHOKE	600uH,YL9N 15x27.5 C:9.5,0.12	1	S.A	
T0010	AA27-00057B	COIL CHOKE	10mH,YL-9N 15x27.5 C:9.5,0.3m	1	S.A	
T0010	AA27-00067A	COIL CHOKE	-,240uH,YL9N 12x20 C:6.0,0.12	1	S.A	
T0052	2703-000222	INDUCTOR-SMD	560nH,10%,2012	1	S.A	
T0052	2703-000222	INDUCTOR-SMD	560nH,10%,2012	1	S.A	
T0052	2703-000222	INDUCTOR-SMD	560nH,10%,2012	1	S.A	
T0052	2703-001079	INDUCTOR-SMD	220nH,5%,2012	1	S.A	
T0052	2703-001079	INDUCTOR-SMD	220nH,5%,2012	1	S.A	
T0052	2703-001079	INDUCTOR-SMD	220nH,5%,2012	1	S.A	
T0052	2703-001079	INDUCTOR-SMD	220nH,5%,2012	1	S.A	
T0052	2703-001802	INDUCTOR-SMD	33uH,20%,2012	1	S.A	
T0052	2703-001802	INDUCTOR-SMD	33uH,20%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0052	2703-002275	INDUCTOR-SMD	470nH,5%,2012	1	S.A	
T0066	AA62-30182F	HEAT SINK-ES	CS29M6,A6063S,T2.0,26.2,52.	1	S.N.A	
T0066	AA62-30181H	HEAT SINK-ES	-,AL6063 EXTR.,2,WHT,50MM,-	1	S.N.A	
T0066	AA62-30182H	HEAT SINK-ES	A6063S,TXR29Z30,T2.0,52,50	1	S.N.A	
T0077	AA41-01183A	PCB MAIN	I ROBOT,FR-1,1L,A,1.6T,330*245,	1	S.N.A	
T0081	BH62-00007A	HEAT SINK-TR	-,T1.0,L20*H30,CDA	1	S.N.A	
T0085	1201-002118	IC-AUDIO AMP	TDA7297SA,ZIP,15P,-,DUAL,32	1	S.A	
T0087	1203-003703	IC-POSI.FIXED REG.	AP1117E-18A,SOT-223,3	1	S.N.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
T0087	1203-001944	IC-POSI.FIXED REG.	78RM33,TO-220,3P,-,PL	1	S.A	
T0087	1203-003954	IC-POSI.FIXED REG.	KA78R05CTU,TO-220F,4P	1	S.A	
T0088	1204-002183	IC-VERTICAL PROCESSO	LA78045,TO220,7P,15	1	S.A	
T0104	AA95-03464A	ASSY SUB PCB-MICOM	TXS2983X/XAA,K64A,COR	1	S.N.A	
T0105	AA60-30001A	WASHER-PLATE	M3,ID3.5,15X8.5,T1.0,SBHG	1	S.N.A	
T0170	1203-003059	IC-SWITCH VOL. REG.	MP1583,SOIC,8P,4.9x3	1	S.A	
T0170	1203-003059	IC-SWITCH VOL. REG.	MP1583,SOIC,8P,4.9x3	1	S.A	
T0175	AA62-00045A	HEAT SINK-PS	-,-,T1.0,-,-,DREAM,-,-,-,-,	1	S.N.A	
T0175	AA62-00056A	HEAT SINK-PS	-,-,T1.0,-,41*35*70,D2,-,-,	1	S.N.A	
T0175	AA62-00057A	HEAT SINK-PS	-,-,T1.0,-,41*20*60,D2,-,-,	1	S.N.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.003	S.N.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.003	S.N.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.025	S.N.A	
T0263	AA97-16514A	ASSY SMD-MICOM	TXS2983X/XAA,K64A,CORSET2	1	S.N.A	
T0266	AA95-03465A	ASSY SUB PCB-DTV MODULE	TXS2769X/XAA,K64	1	S.N.A	
T0296	AA27-00035B	COIL LINEARITY	30uH,DR15x18,11.0mm,19x45	1	S.A	
T0568	3301-001202	BEAD-SMD	120ohm,4532,TP,167ohm/260MHz,20	1	S.N.A	
T0568	3301-001202	BEAD-SMD	120ohm,4532,TP,167ohm/260MHz,20	1	S.N.A	
T0568	3301-001202	BEAD-SMD	120ohm,4532,TP,167ohm/260MHz,20	1	S.N.A	
T0568	3301-001404	BEAD-SMD	30ohm,2012,TP,-,-	1	S.A	
T0607	AA61-01390A	BRACKET-IC	CT-29A20HR,SECC,T1.0	1	S.N.A	
T0900	1404-001045	THERMISTOR-NTC	4.7ohm,4.565A,2900K,-,-,-	1	S.A	
T401	AA26-50001M	TRANS-H.DRIVE	-,-,-,80mH,-,-,520uH,-,-,-	1	S.A	
T444	AA26-00266A	TRANS FBT	FUH29A001V,CORSET2,3.50mH,PM5	1	S.A	
⚠ T801S	AA26-00217A	TRANS SWITCHING	EER4950,KS7A BASIC,AC90-	1	S.A	
⚠ VP801S	1405-000152	VARISTOR	560V,2500A,14x8.5mm,TP	1	S.A	
⚠ VX801S	1405-000152	VARISTOR	560V,2500A,14x8.5mm,TP	1	S.A	
X200	2801-004224	CRYSTAL-SMD	25.14MHz,-,-,20pF,50ohm,REEL	1	S.A	
X201	2801-004460	CRYSTAL-SMD	55.474MHz,30ppm,SMD,16pF,80o	1	S.A	
XA001	2801-003804	CRYSTAL-SMD	24.576MHz,30ppm,28-AAN,20pF,	1	S.A	
	AA97-16520A	ASSY SMD-DTV MDL	TXS2769X/XAA,K64A,CORSE	1	S.N.A	
	0402-001374	DIODE-RECTIFIER	FFPF06U20S,200V,6A,TO-22	1	S.A	
T0065	AA94-15776A	ASSY PCB CRT	K54A	1	S.N.A	
C504	2301-001259	C-FILM,LEAD-PPF	100nF,5%,400V,TP,19x8x16	1	S.A	
C505	2202-000825	C-CERAMIC,MLC-AXIAL	680pF,10%,50V,Y5P,TP	1	S.A	
C506	2401-000430	C-AL	10uF,20%,250V,GP,TP,10x16mm,5m	1	S.A	
C507	2401-000430	C-AL	10uF,20%,250V,GP,TP,10x16mm,5m	1	S.A	
C508	2201-000723	C-CERAMIC,DISC	4.7NF,20%,3KV,Y5U,TP,16X5	1	S.A	
C509	2201-002147	C-CERAMIC,DISC	2.7NF,10%,500V,Y5P,TP,10X	1	S.A	
C510	2201-002147	C-CERAMIC,DISC	2.7NF,10%,500V,Y5P,TP,10X	1	S.A	
CC501	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
CC502	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
CN503	3711-003241	HEADER-BOARD TO CABLE	BOX,14P,1R,2.5MM,S	1	S.A	
CR511	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1	S.A	
D501	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1	S.A	
D502	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1	S.A	
D503	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1	S.A	
D504	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,T	1	S.A	
DZ501	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
DZ502	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
DZ503	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1	S.A	
EL501	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL502	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
GT501	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT502	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT503	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT504	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
IC501	AA96-50311P	ASSY HEAT SINK P	AA62-30175D,TDA6108AJF,	1	S.N.A	
L503A	2702-001092	INDUCTOR-RADIAL	2.2uH,10%,4x6mm	1	S.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,2S,M3,L6,ZPC(YEL),SWR	1	S.N.A	
M2893	AA39-00376B	LEAD CONNECTOR	ET-PAL CIS,UL1007/2547#26	1	S.A	
PCB	AA41-01187A	PCB CRT	CS29M20,FR-1,9L,00,1.6T,245*245,	1	S.N.A	
R501	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R501H	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1	S.A	
R502H	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1	S.A	
R503	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R504	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R505	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
R514	2001-001062	R-CARBON(S)	10MOHM,5%,1/2W,AA,TP,2.4X6.4	1	S.A	
R551	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
SUB05	0202-001477	SOLDER-CREAM	LST309-M,-,D20~45§-,96.5Sn/	0.642	S.N.A	
T0074	1201-002244	IC-VIDEO AMP	TDA6108AJF,DBS9MPF,9P,21.8x	1	S.A	
T0100	AA97-16463A	ASSY AUTO-CRT	CRT,K54A	1	S.N.A	
T0175	AA62-30175D	HEAT SINK-PS	-,SECC,T1.0,-,33X15X30 FT-2	1	S.N.A	
T0245	AA39-20010D	LEAD CONNECTOR-ASSY	,1P,400,YFH800-01,S,	1	S.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.003	S.N.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1	S.A	
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1	S.A	
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1	S.A	
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1	S.A	
⚠ V999S	3704-001197	SOCKET-CRT	8P+SEN,29PI,22.5PI,NI+SN,-	1	S.A	
T0098	AA94-15114B	ASSY PCB MISC-CONTROL	TXR3079WHX/XAA,COR	1	S.A	
CNY01	3711-000058	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,AN	1	S.A	
DZY03	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1	S.A	
DZY04	2202-000796	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,TP,3	1	S.A	
LY01	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1	S.A	
LY02	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1	S.A	
M0081	6003-001023	SCREW-TAPTITE	PWH,+,B,M3,L10,ZPC(YEL),SW	2	S.N.A	
M2893	AA39-00387C	LEAD CONNECTOR	K62A(CORE),UL1007#26,4P,7	1	S.A	
PCB	AA41-00619A	PCB-CONTROL(Z7)	CT-29HM8,FR-1,1L,A,1.6T,	1	S.N.A	
RY02	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RY03	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RY04	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RY05	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
RY06	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	S.A	
SWY07	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
SWY08	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
SWY09	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
SWY10	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
SWY11	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
SWY12	3404-000243	SWITCH-TACT	15V,20mA,160gf,6x3.4mm,SPST	1	S.A	
T0022	AA64-01201N	KNOB CONTROL	32Z30,ABS,HB,BLK	1	S.N.A	
T0057	AA97-15792B	ASSY AUTO-CONTROL	TXR3079WHX/XAA,CORE,K6	1	S.N.A	
T0245	0202-001522	SOLDER-WIRE FLUX	LFA3-107,-,D1.2,96.5Sn/	0.001	S.N.A	

ASSY FIXING

T0892	AA91-09842A	ASSY FIXING	TXS2783X/XAA,K64A,CORSET2	1	S.N.A	
M0081	6003-001023	SCREW-TAPTITE	PWH,+,B,M3,L10,ZPC(YEL),SW	2	S.N.A	
⚠ T0268	AA39-10007Y	CBF-POWER CORD	-,EP2/YES,SPT-2 18AWGx2C,	1	S.A	
T0070	AA61-01424A	HOLDER-CHASSIS	32Z30,HIPS V0,T2.0,G4309,	1	S.N.A	
T0010	AA61-20284A	HOLDER	P-CORD,PP,-,-,-,BLK,VO,KE-002	1	S.N.A	
CIS1	AA65-00029A	CLAMPER CORE-WIRE	PJTV,NYLON66,OD24,DONG	1	S.N.A	
CIS1	AA65-30018A	CLAMPER CORE-WIRE	DONG-A,NYLON-66,-,-,-,	1	S.N.A	
T0130	AA96-02913A	ASSY COVER P-TERMINAL BOARD	32Z30,DO,HIP	1	S.A	
T0071	AA64-04192A	INLAY-TERMINAL	32Z30(NTSC),PS,T0.5,SHEET	1	S.N.A	
T0415	AA65-00049A	TERMINAL-BOARD	32Z30(NTSC),HIPS V0,BLK	1	S.N.A	
CIS1	AA65-30110A	CLAMPER CORE-WIRE	ALL MODEL,NYLON 66,V2,	1	S.N.A	

ASSY P/MATERIAL

M0113	AA92-11253B	ASSY P/MATERIAL	CW29Z306VBXXEC	1	S.N.A	
T0376	6902-000001	BAG AIR	LDPE,T0.2,L1800,W1000,TRP,,,LDPE	0.012	S.N.A	
T0524	6902-000006	BAG PE	HDPE/NITRON/HDPE,T0.02/T0.5/T0.2,	1	S.N.A	
T0214	AA60-40006A	PIN-STAPLE	AUTO,33X17.8X2.4,H18,33X17.8X	6	S.N.A	
T0172	AA69-02609A	BAND-PP	W18,CLEA,1G	5.02	S.N.A	

ASSY BOX

M0003	AA92-11432Q	ASSY BOX	TXS2783X/XAA	1	S.N.A	
T0130	AA69-03086A	BOX-00,SET	29Z30,DY-06,AB,YEL,A1,W895,D4	1.01	S.N.A	

ASSY ACCESSORY

M0045	AA92-11535A	ASSY ACCESSORY	TXS2783X/XAA,K61C,CORSET2	1	S.N.A	
M0045	AA96-04024N	ASSY ACCESSORY	TXS2783X/XAA,K63A,NATURAL	1	S.N.A	
T0524	6902-000009	BAG PE	HDPE,T0.03,L400,W240,TRP,8,2,PE M	1	S.N.A	
T0074	AA59-00378A	REMOCON	CORSET2,TM85,39,NTSC,K64A,Export	1	S.A	
	AA68-00371C	CARD WARRANTY-04	,SEA,W/P100(G),1 YEAR	1	S.N.A	
0	AA68-03242F	MANUAL FLYER-01,SAFETY GUIDE	All Model,S	1	S.N.A	
M0596	AA68-03783A	MANUAL USERS-00	Comm,Samsung,English,N.A	1	S.N.A	
MP1.0	AA68-40065B	CARD-01,REGISTRATION	,SEA,A5,ENG,A/P220,	1	S.N.A	

ASSY COVER REAR

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
M0002	AA90-05391U	ASSY COVER REAR	TXS2783X/XAA,K64A	1	S.N.A	
T0069	AA60-00091J	SPACER-FELT	-,FELT,330X10,-,-,BLK,T0.5,-	3	S.N.A	
M0006	AA63-01169A	COVER-REAR	29Z30,HIPS,T3.0,V0,BK500,HQ	1	S.A	
T0578	AA64-04297J	INLAY AV	32Z30,PS,SHEET,T0.5,K63A	1	S.N.A	
CIS7	AA64-60421B	INLAY-COVER	-,PS,T0.3,-,-,BLK,AAFES	1	S.N.A	
T0522	AA65-30008A	CLAMPER CORE-CORD	-,PE,HB,-,BLK,-	1	S.N.A	

ASSY COVER FRONT

M0001	AA90-05433Q	ASSY COVER FRONT	TXS2783X/XAA	1	S.N.A	
M0081	6003-001026	SCREW-TAPTITE	RH,+,B,M4,L15,ZPC(BLK),SWR	9	S.A	
M0081	6003-001026	SCREW-TAPTITE	RH,+,B,M4,L15,ZPC(BLK),SWR	2	S.A	
M0081	6003-001026	SCREW-TAPTITE	RH,+,B,M4,L15,ZPC(BLK),SWR	2	S.A	
M0081	6003-001268	SCREW-TAPTITE	TH,+,B,M4,L12,ZPC(YEL),SWR	2	S.N.A	
M0081	6003-001268	SCREW-TAPTITE	TH,+,B,M4,L12,ZPC(YEL),SWR	2	S.N.A	
M0081	6003-001268	SCREW-TAPTITE	TH,+,B,M4,L12,ZPC(YEL),SWR	2	S.N.A	
T0238	AA60-10050V	BOLT-HEX	-,SWRCH18A,M6,L30,HH,+,WC,-,Z	4	S.N.A	
T0569	AA61-00813D	SUPPORT-CRT	29Z30(SLIM),HIPS V0,T2.0,GR5	2	S.N.A	
T0609	AA63-60004Z	SPACER-GUM,CRT	ALL MODEL,NTR RUBBER,-,-,	4	S.N.A	
T0003	AA96-03383M	ASSY COVER P-FRONT	29Z30,SEA,HIPS V0,GR5	1	S.A	
M0081	6003-001268	SCREW-TAPTITE	TH,+,B,M4,L12,ZPC(YEL),SWR	1	S.N.A	
T0069	AA60-00091J	SPACER-FELT	-,FELT,330X10,-,-,BLK,T0.5,-	2	S.N.A	
M0081	AA60-10002A	SCREW-TAPTITE	RH,+,-,-,M4,L12,ZPC(YEL),S	4	S.N.A	
CIS7	AA61-60003J	SPRING ETC-CS	-,SUS304,-,-,OD6,N7,OD6,-,	1	S.N.A	
M0112	AA63-01167M	COVER-FRONT	29Z30,HIPS,V0,GR503,SV012P+B	1	S.A	
T0057	AA64-01062B	BADGE-BRAND	ALL,AL,T1.5,10.6,L65,BLK.SIL	1	S.N.A	
T0299	AA64-04191A	WINDOW-RMC LED	32Z30,PC CLEAR	1	S.N.A	
T0175	AA96-03164A	ASSY SPEAKER P	8ohm,6*13cm,Z31,10W,SPK+W	1	S.A	
T0382	BP61-00509C	HOLDER-CARE	PJT,ACRYL-FOAM,T0.25,W20.0mm	0.28	S.N.A	
T0382	BP61-00509C	HOLDER-CARE	PJT,ACRYL-FOAM,T0.25,W20.0mm	0.15	S.N.A	
T0023	BP64-00326A	KNOB POWER	43T9,ABS,HB,BLK,SVM3012	1	S.A	
CIS3	BP64-00331B	DECORATION-POWER	PJTV,ABS,HB,GR503,SVM30	1	S.N.A	
T0382	BP61-00495C	HOLDER-CARE	PJT,ACRYL-FOAM,T0.25,W30.0mm	0.2	S.N.A	

ASSY CPT

T0521	AA91-07877M	ASSY CPT	29INCH,K64A,CORSET2	1	S.N.A	
⚠ T0063	AA03-00465A	CRT COLOR	A68QFZ893X001,380,1.10,12.0,1.	1	S.A	
T0090	AA27-00314A	COIL DEGAUSSING-TILT	TILT,CPTTV,33.5mH,2	1	S.A	
T0089	AA27-00342C	COIL DEGAUSSING	YE-0508101,Cool Running(	1	S.A	
CIS1	AA65-00056A	CLAMPER CORE-WIRE	32Z30,NYLON-66,V0,NTR	4	S.N.A	
T0527	AA65-00061A	CLAMPER CORE-D,COIL	NYLON-66,VO,NTR	4	S.N.A	
T0603	AA96-04062A	ASSY TBC WIRE P	K64A,29,NTSC,2P	1	S.N.A	
M0909	AA72-00030A	SPONGE	29Z30,CR VO BLK,T2.0,10,540	2	S.N.A	

6. Troubleshooting

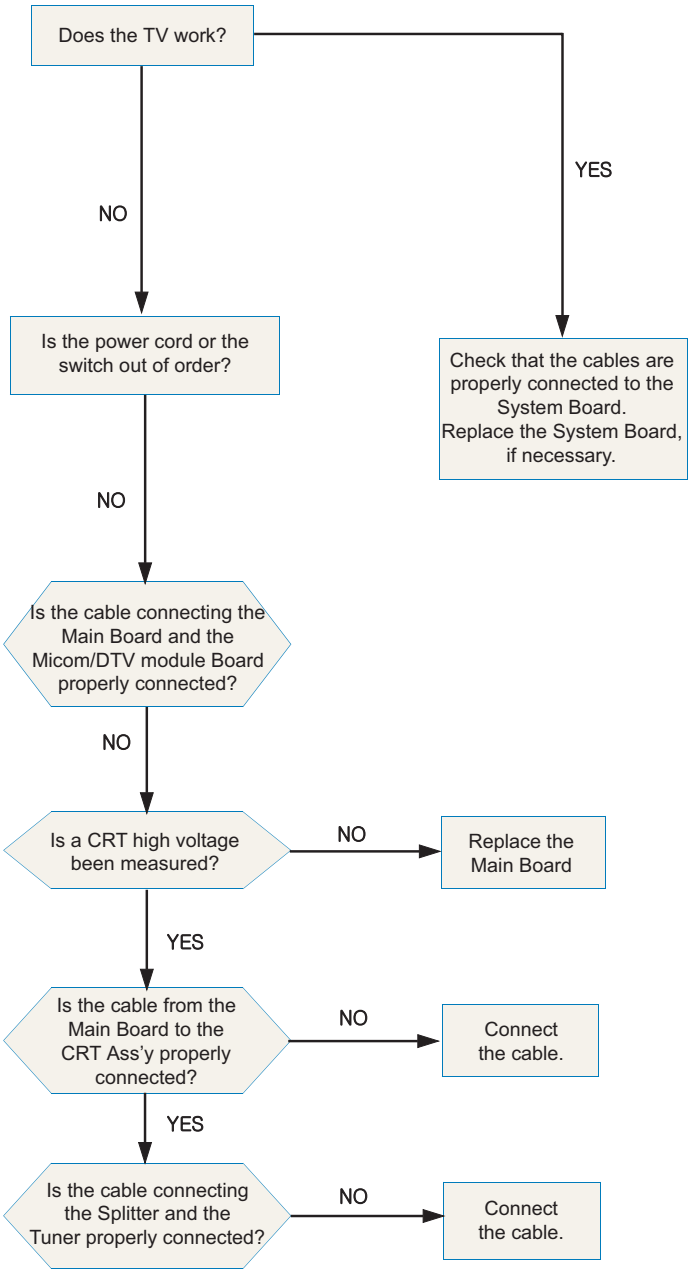
6-1 Checkpoints by Error Mode

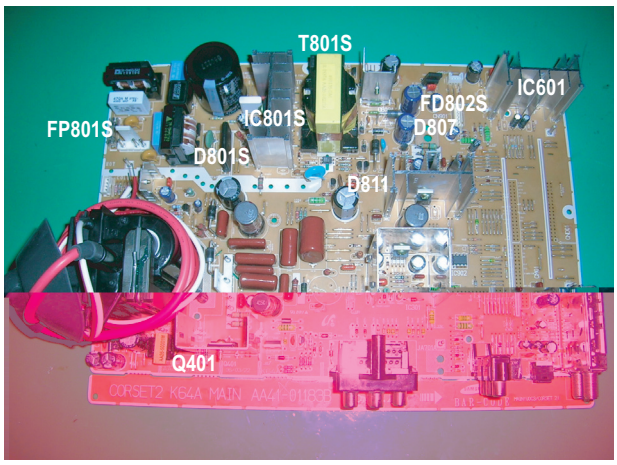
■ Power LED: Check that the LED works when turning the Master Switch ON/OFF

■ LED Indicators: See table 6-2-1 Basic Troubleshooting: LED Diagnosis on the Front Panel.

■ In case of a power failure or abnormal screen, check the following items.
1) Check that the power cord is correctly connected to a 110V wall outlet.
2) Check that the Master Switch has been pressed.
3) Check that the transmitter is turned on.
4) Check that transmitter device selection is set to TV.
5) Check that the signal cable is properly connected.
6) Check that channel setting has been set.

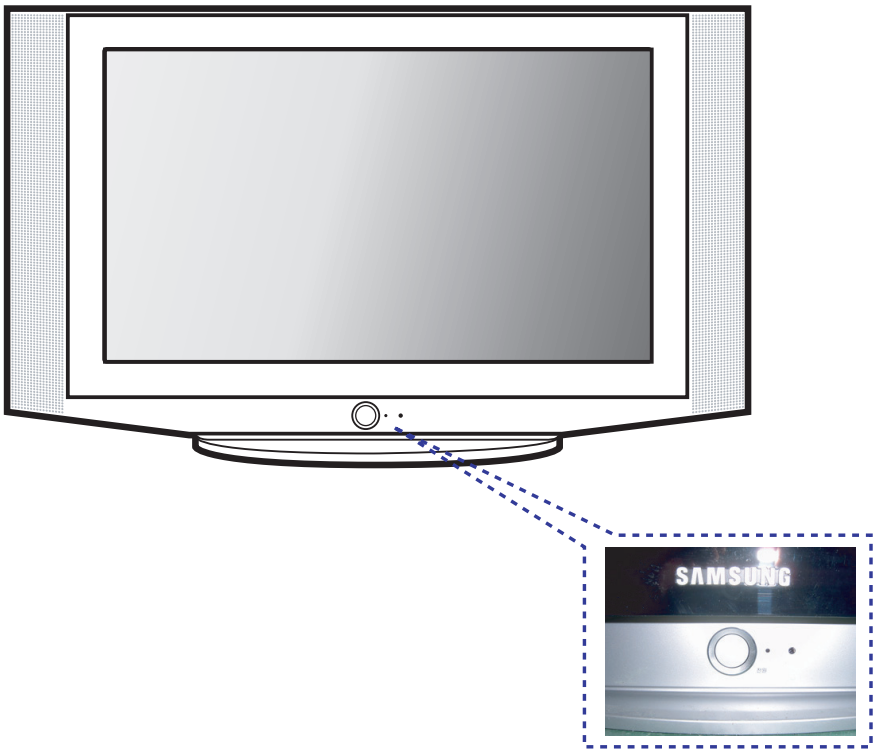
6-1-1 Flow Chart for Malfunction


Does the TV work?
YES
NO
Check that the cables are properly connected to the System Board. Replace the System Board, if necessary.
Is the power cord or the switch out of order?
NO
Is the cable connecting the Main Board and the Micom/DTV module Board properly connected?
NO
Is a CRT high voltage been measured?
NO
Replace the Main Board
YES
Is the cable from the Main Board to the CRT Ass'y properly connected?
NO
Connect the cable.
YES
Is the cable connecting the Splitter and the Tuner properly connected?
NO
Connect the cable.



6-2 Troubleshooting Procedures by Error Modes

6-2-1 Basic Troubleshooting: Diagnosis of LED on the Front Panel



● : Light is On
◑ : Light is Blinking
○ : Light is Off

Power	Description
○	This happens when the Master Switch is not pressed or the power cord is disconnected.
●	This happens when the power cord is connected and the power switch is pressed. If you cannot set the power switch on by pressing it, check the power switch Ass'y.
○→◑→●	If you press the power switch of the transmitter or the channel key on the remote control when in St-BY status, the screen will be turned on. If the LED blinks and the screen is not displayed, check the connection between the Power and the System Board.

6-2-2 Troubleshooting by the Checksum

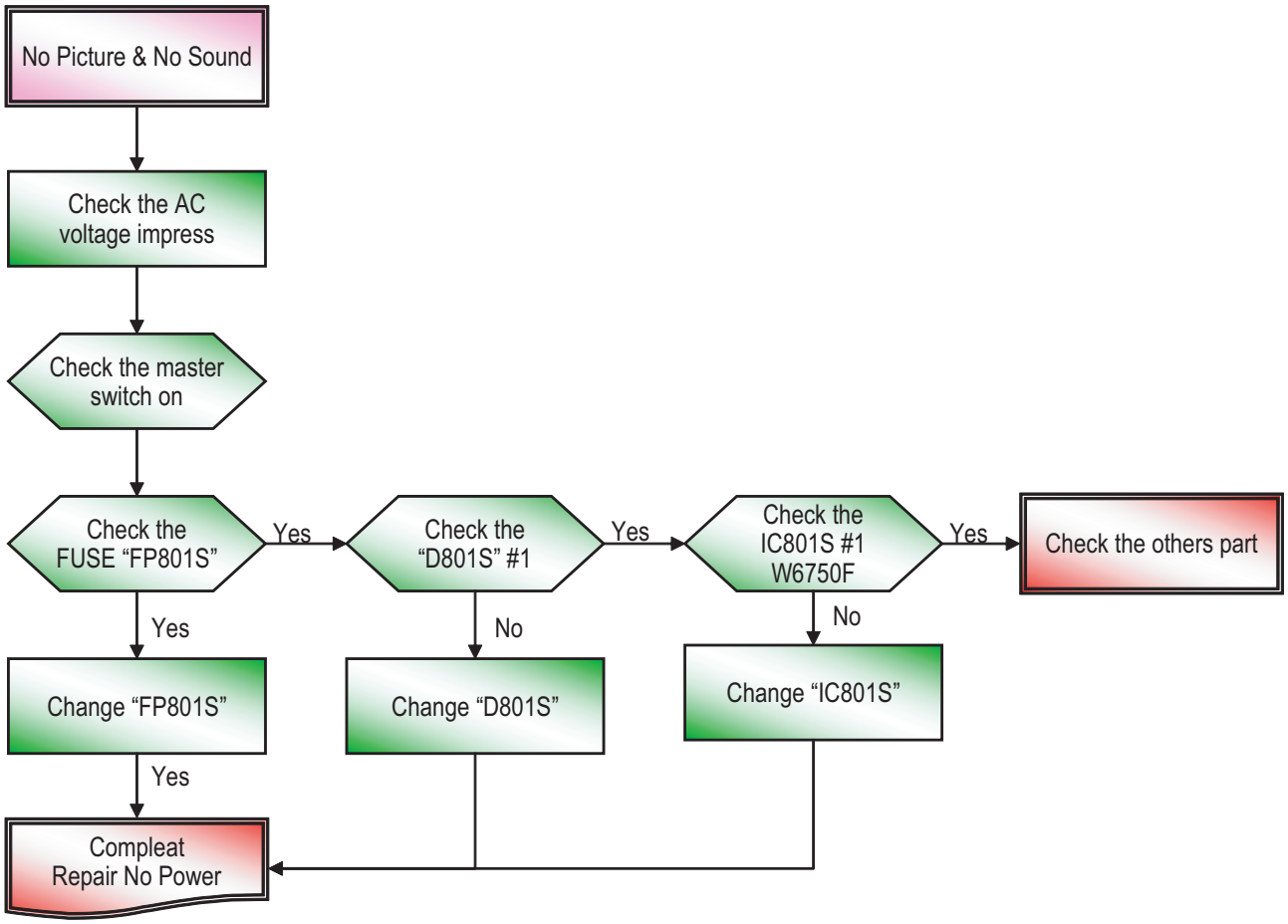
■ Diagnosis of trouble by the checksum is neither reliable nor convenient.
You can only use the checksume of the current direct-view TV to determine whether the software is corrupted or not.
The Checksum value is determined according to the version of the software loaded on the set.
Therefore, you can determine whether the software has been properly downloaded, if you know the correct checksum for that version of the software.

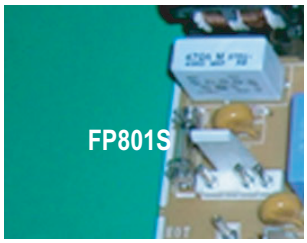
You can check the checksum according in the following order.
Factory Mode → Checksum → Right Button → Calculate Checksum → Output Checksum (e.g. 0xab2b)

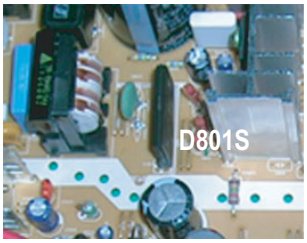
■ Checksum Examples
T-CR2NUSO-0001 : checksum = 0x4faa

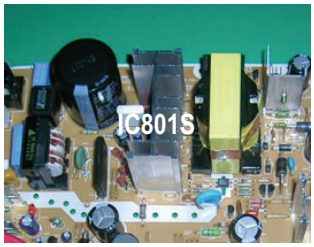
6-3 Troubleshooting Procedures by ASS'Y

6-3-1 No Power (1st Power)

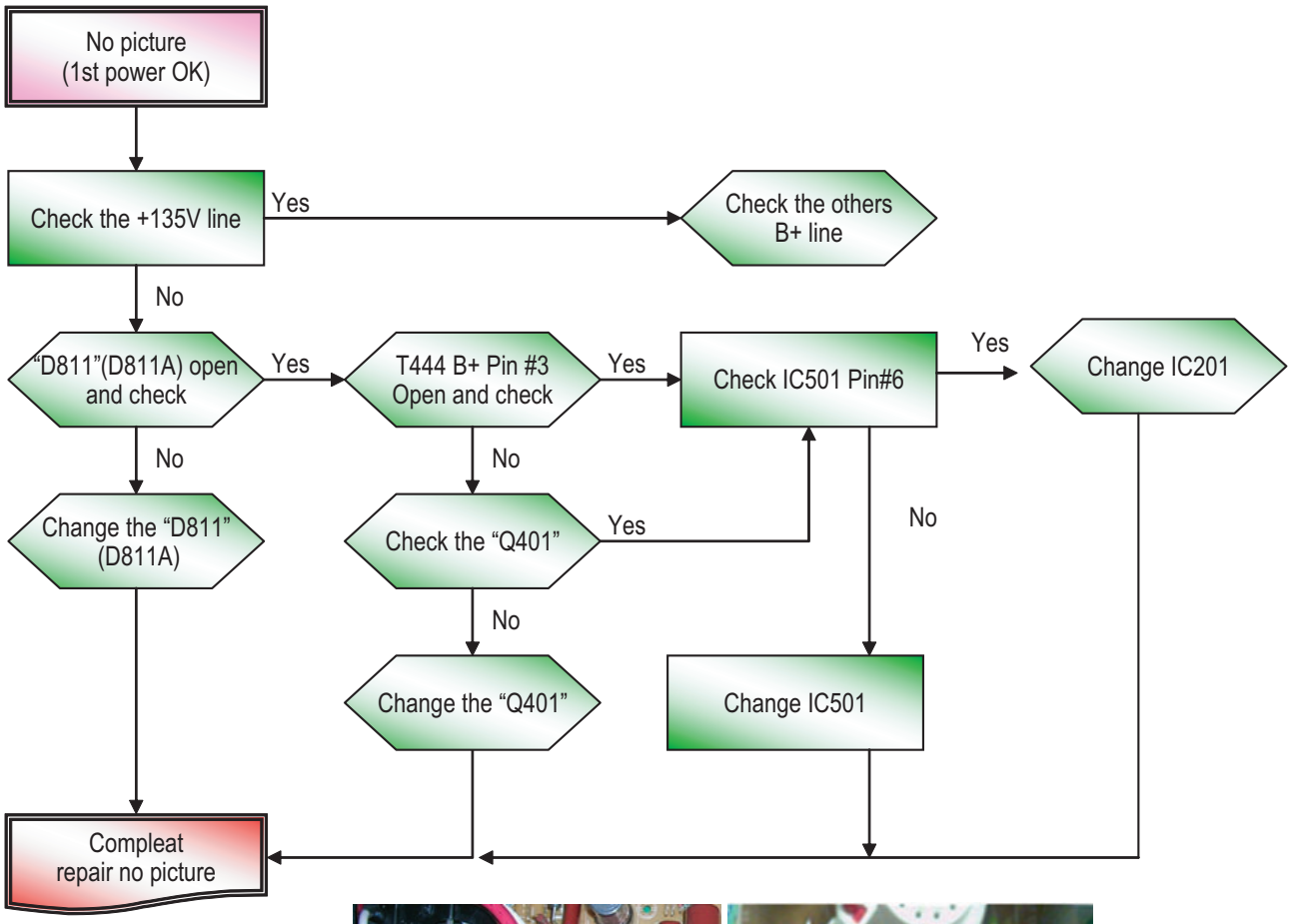


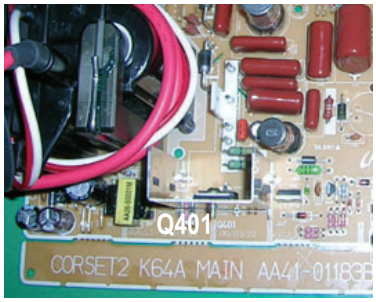


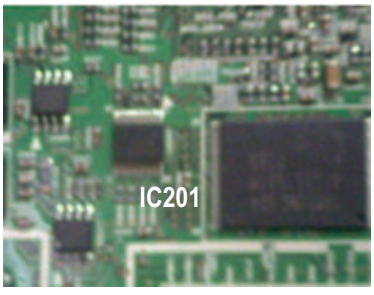


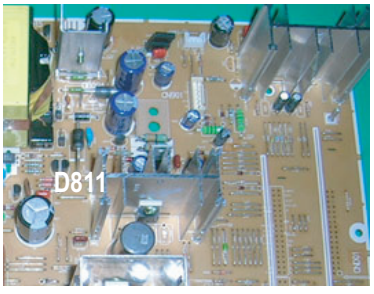


6-3-2 No Picture(2nd Power)

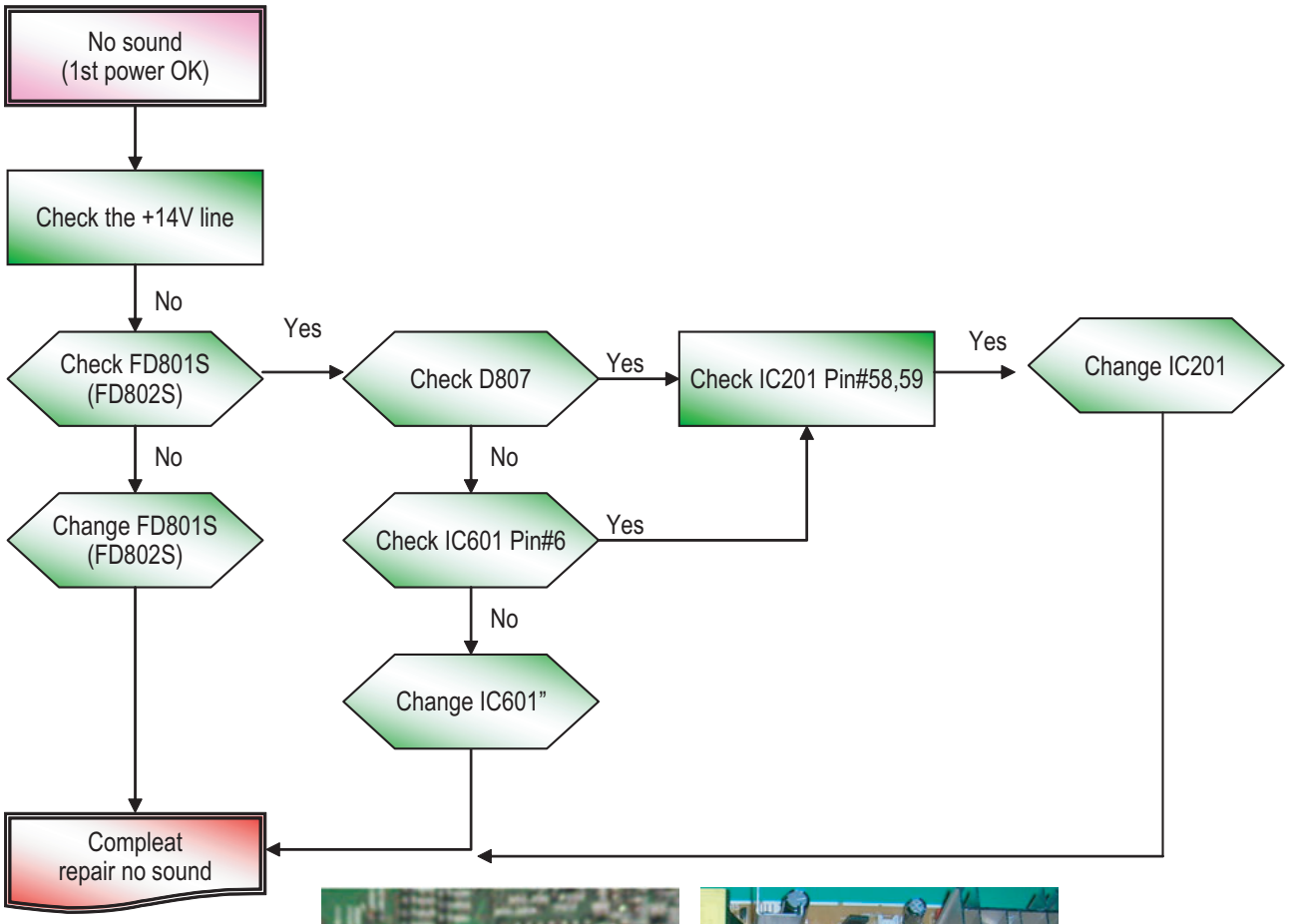


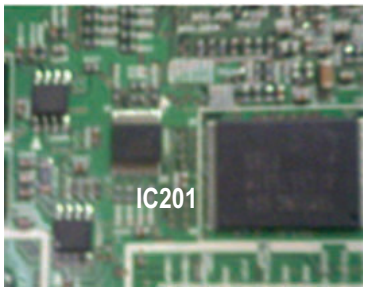


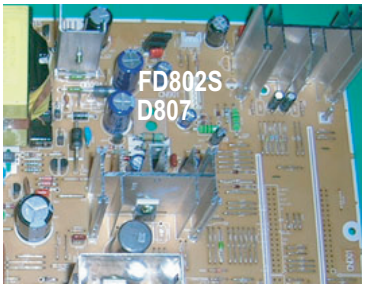


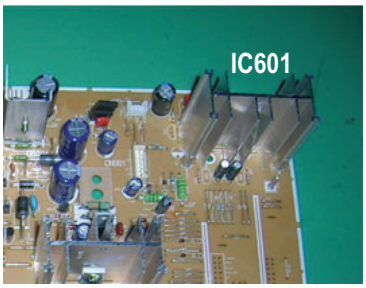


6-3-3 No Sound


No sound
(1st power OK)
Check the +14V line
No
Check FD801S
(FD802S)
Yes
Check D807
Yes
Check IC201 Pin#58,59
Yes
Change IC201
No
Change FD801S
(FD802S)
No
Check IC601 Pin#6
Yes
No
Change IC601"
Compleat
repair no sound

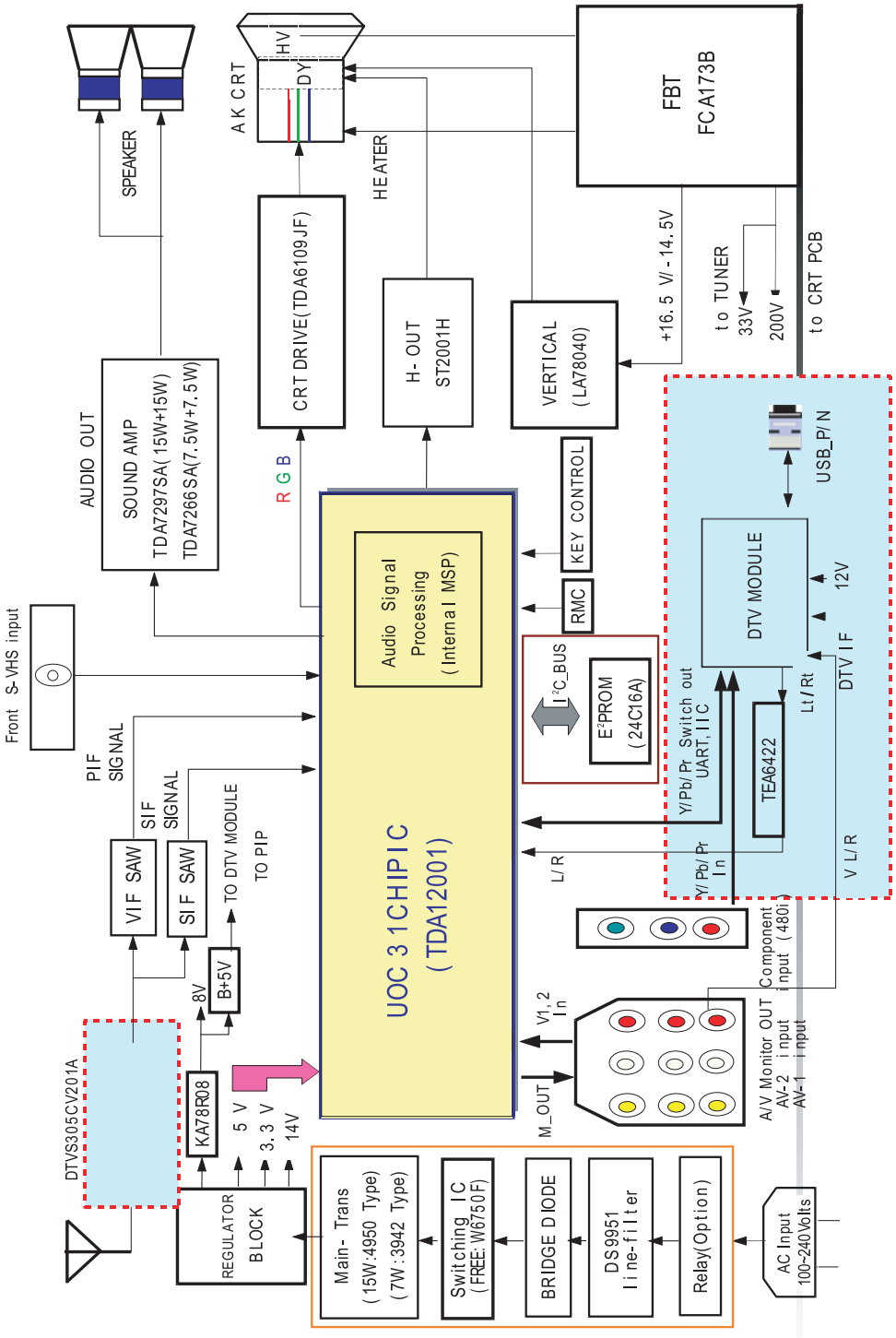

IC201


FD802S
D807


IC601

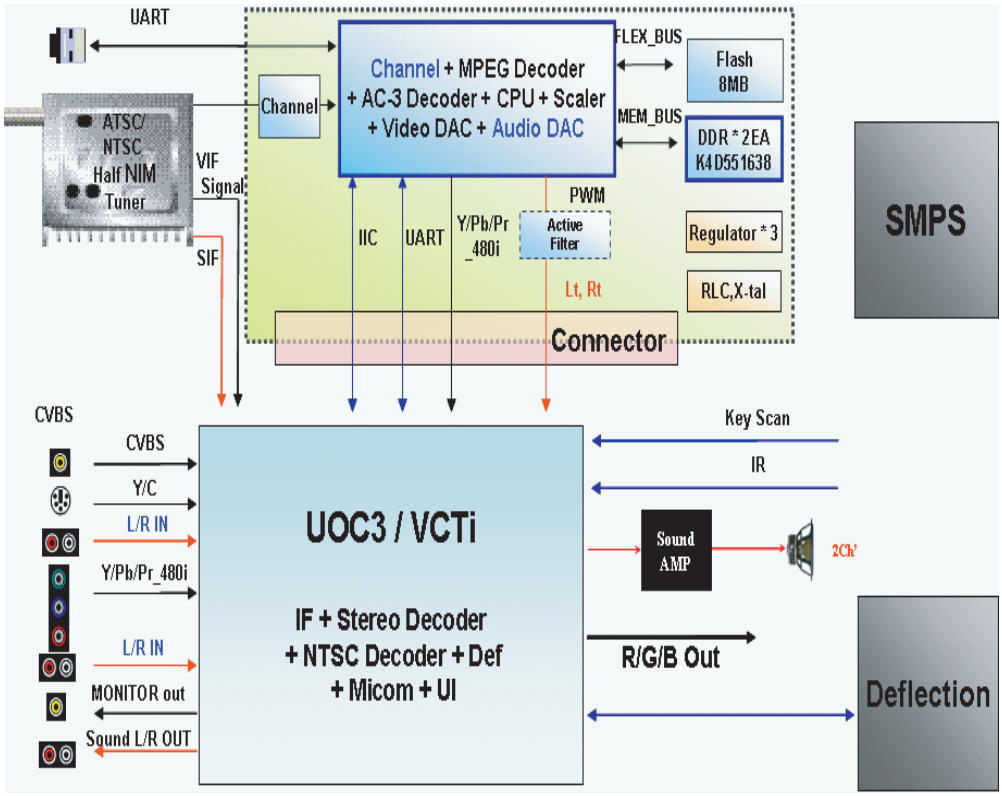
7. Block Diagram

7-1 Overall Block Diagram

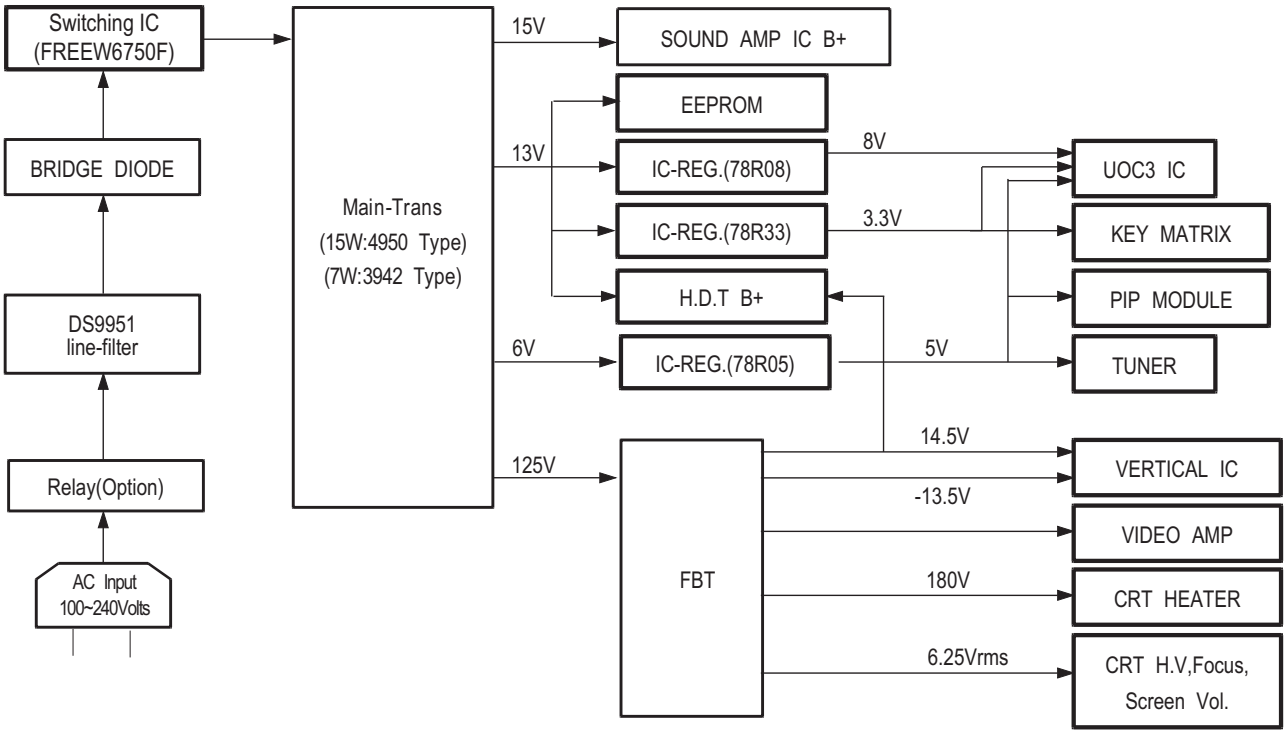


7-2 Partial Block Diagram

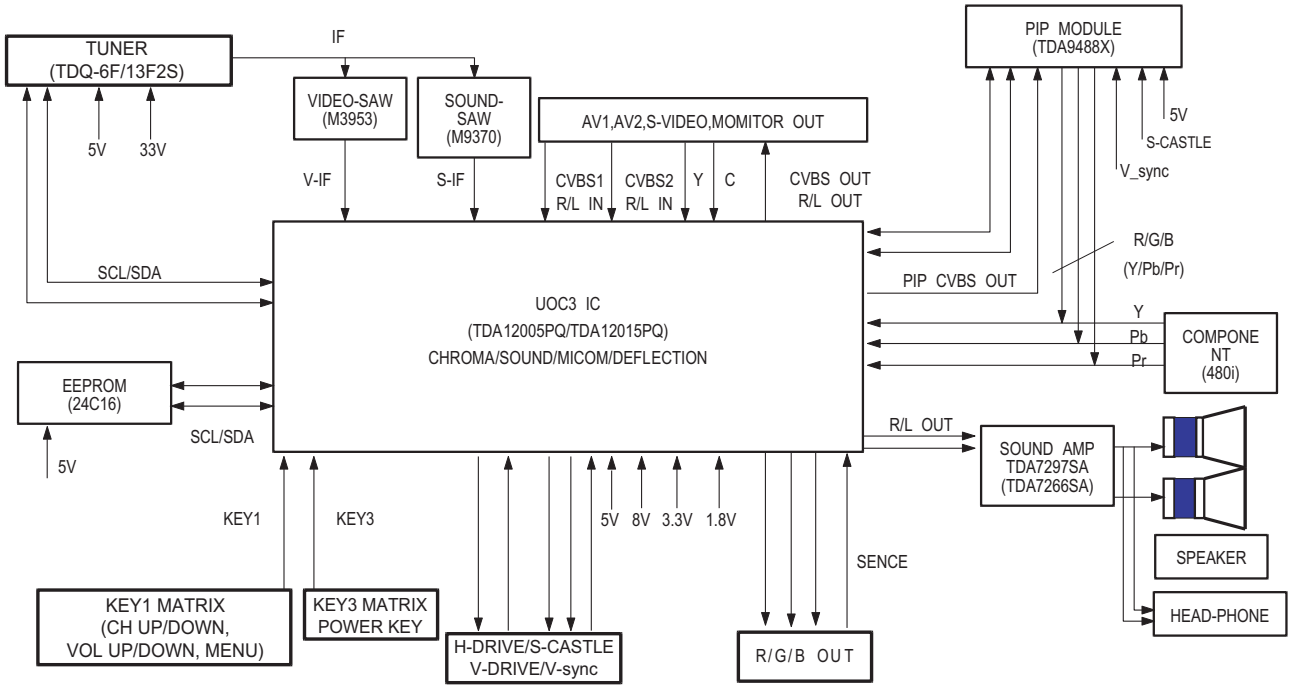
7-2-1 Deflection Block Diagram



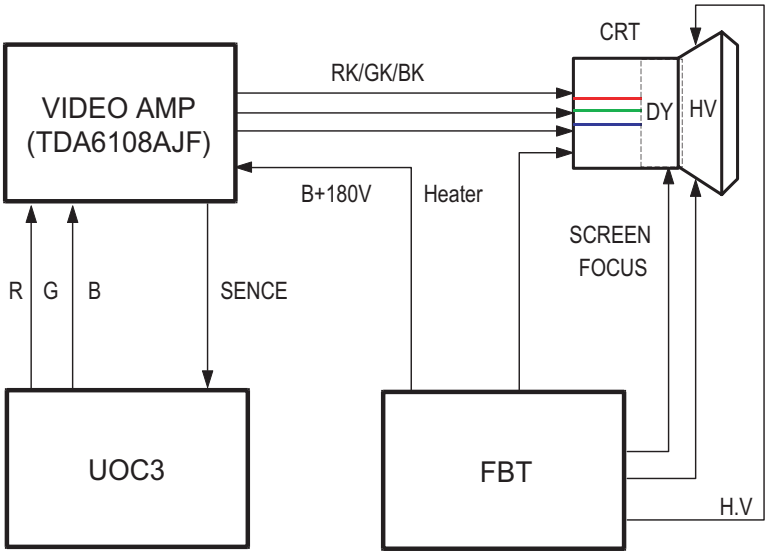
7-2-2 Power Block Diagram



7-2-3 Micom & Tuner Block Diagram



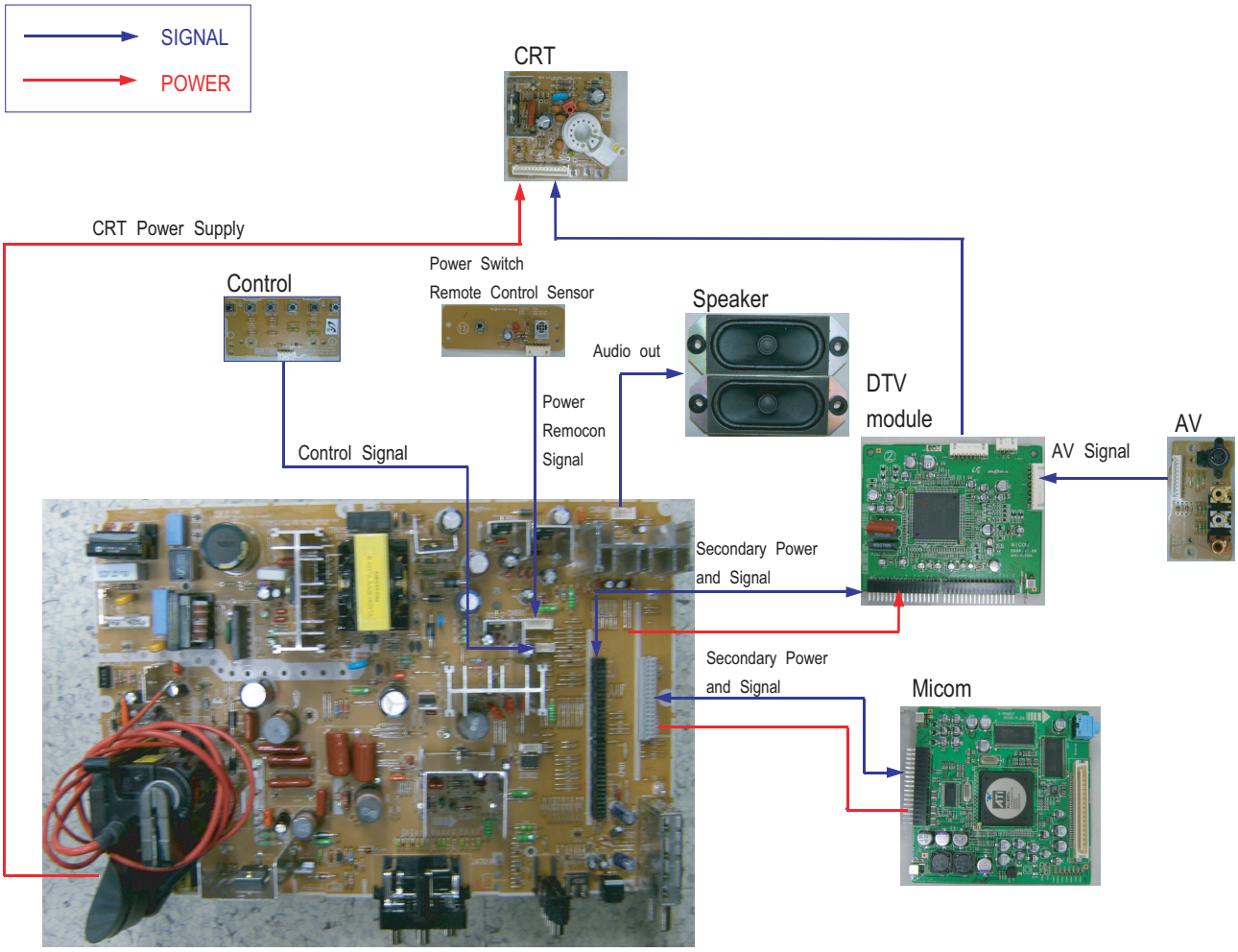
7-2-4 CRT Drive Block Diagram



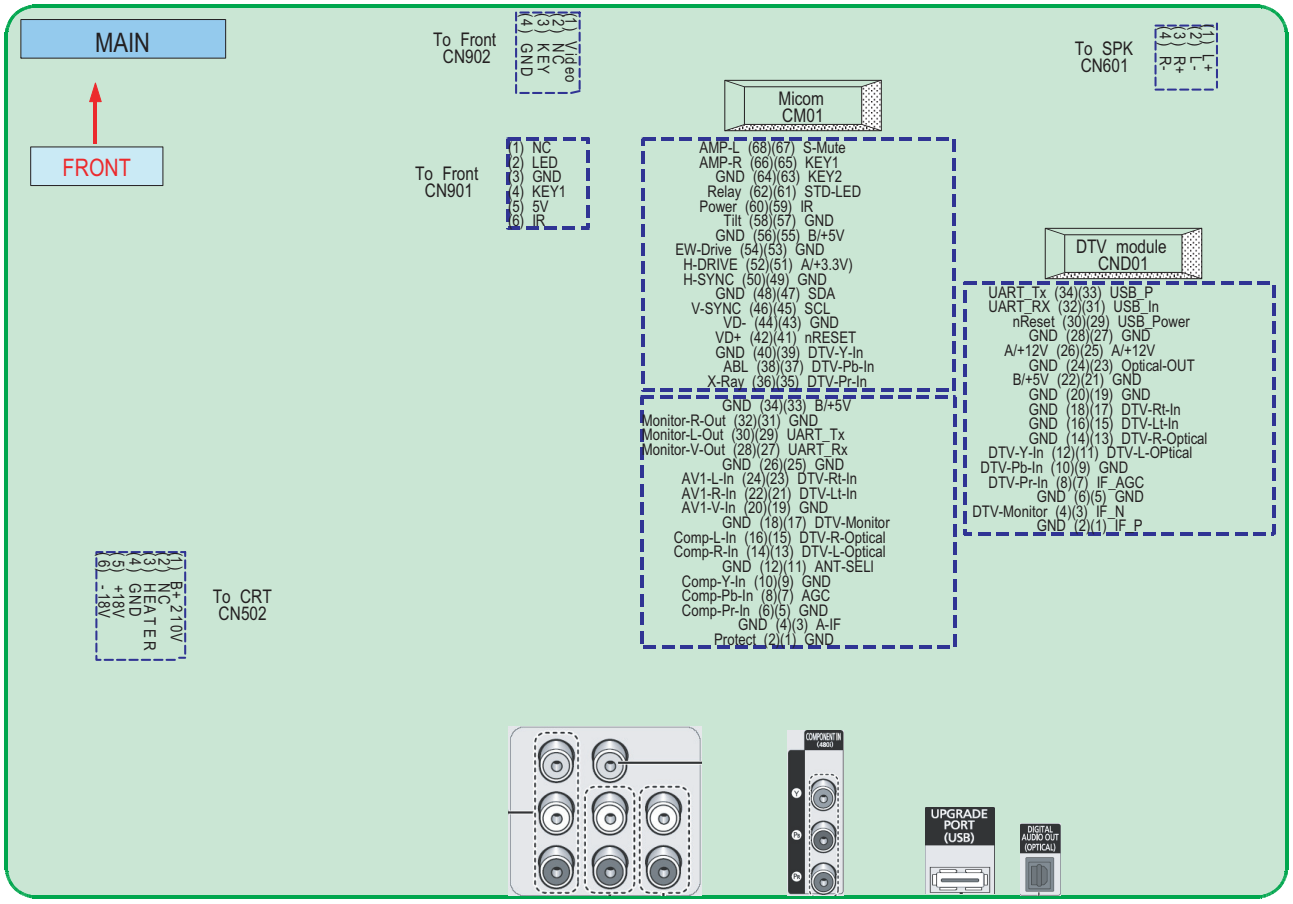
MEMO

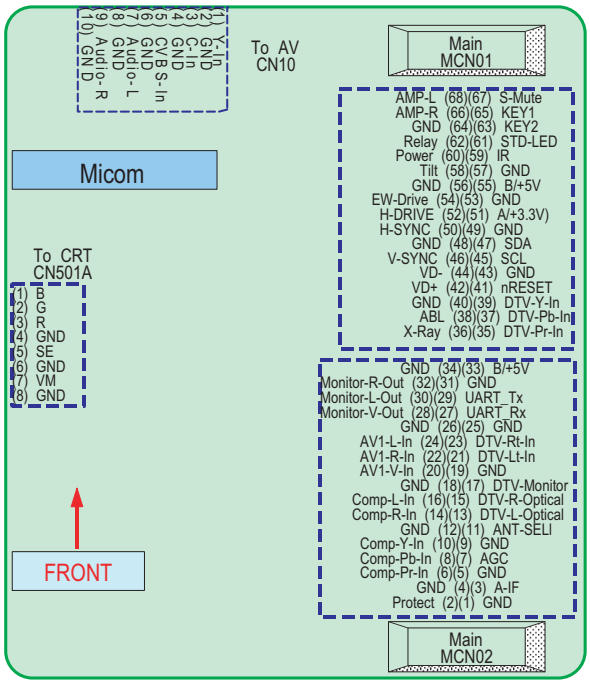
8. Wiring Diagram

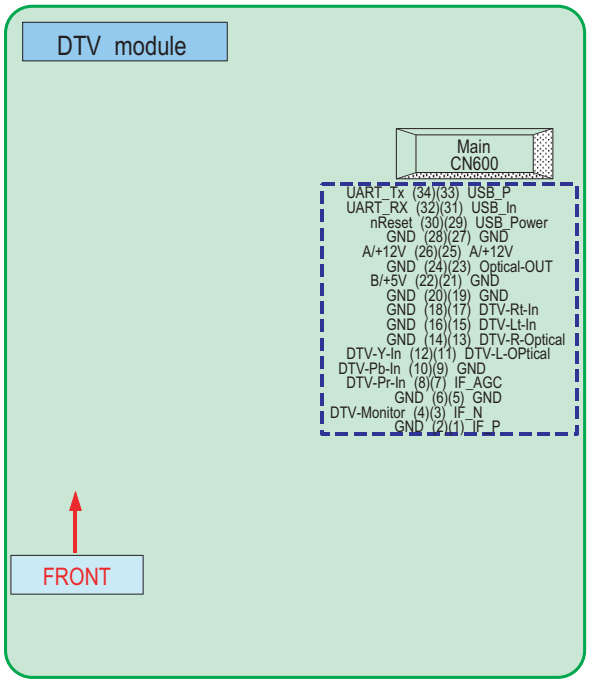
8-1 Overall Wiring



8-2 Pin Connection



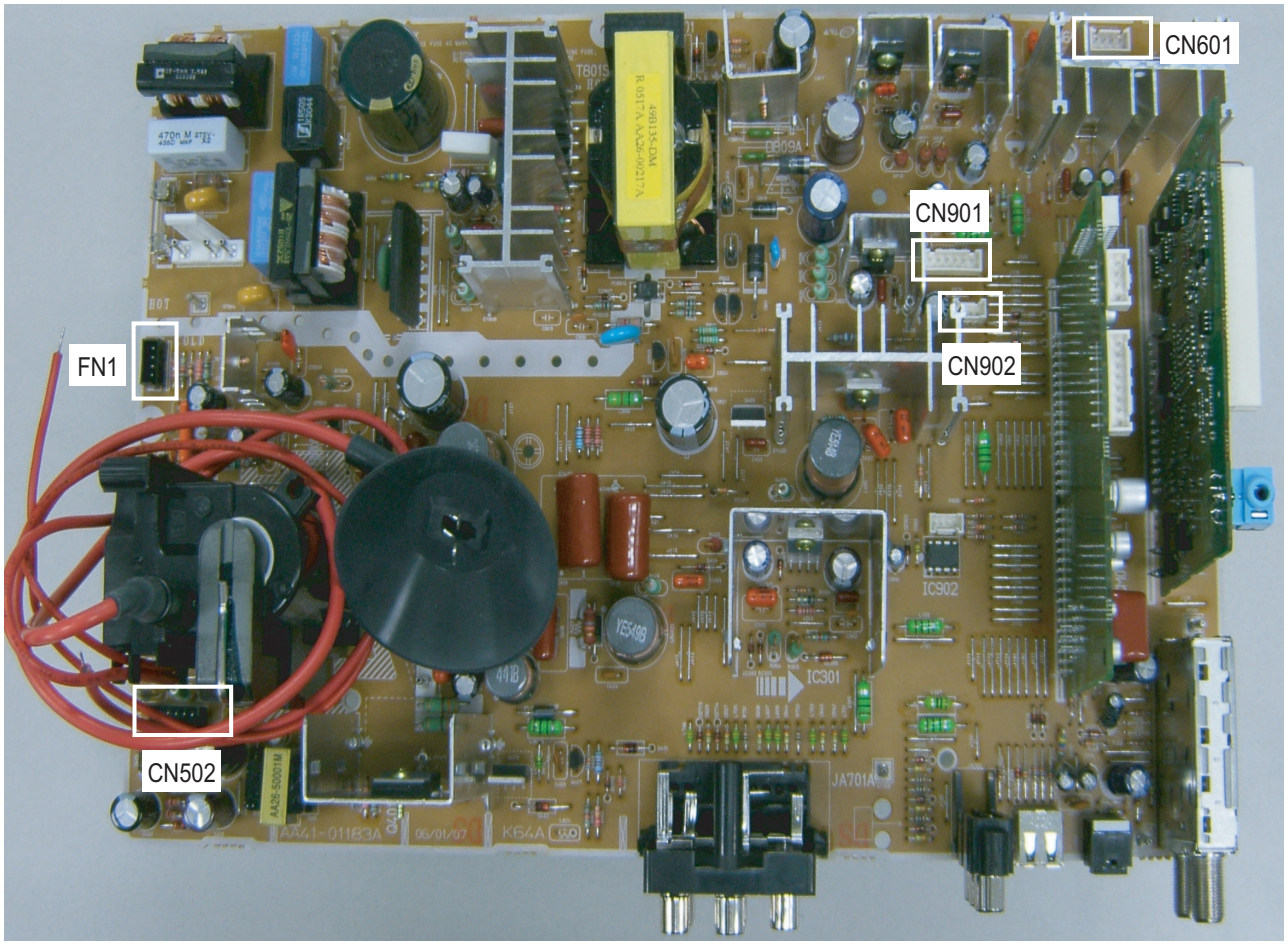




9. PCB Diagram

9-1 Main Board

9-1-1 Assy Main Board



■ The Main Board that Controls Various Signals & Power for Operations

9-1-2 Names & Roles of Key Parts

* CN901 : 6 pin port connected to the Master Ass'y. It receives Master Power On/Off and IR signals.
* CN902 : 4 pin port connected to the Control Ass'y. It receives TV/Video, Menu, Ch UP/Down and Vol+/- signals.
* CN601 : 4 pin port connected to the Speaker, and sends the signal from the AMP to the speakers.
* CN502 : 6 pin port connected to the CRT Ass'y. It outputs the VM and Power signals for the CRT Drive.
* FN1 : 4 pin port connected to the Tilt Coil

9-1-3 Main Board Connector Pin

CN901
Connected to the Master Ass'y

PIN No.	Pin Name
1	NC
2	STD-LED
3	GND
4	KEY2
5	A/+5V
6	IR

CN902
Connected to the Control Ass'y

PIN No.	Pin Name
1	GND
2	KEY1
3	NC
4	KEY2

CN601
Connected to the Speaker

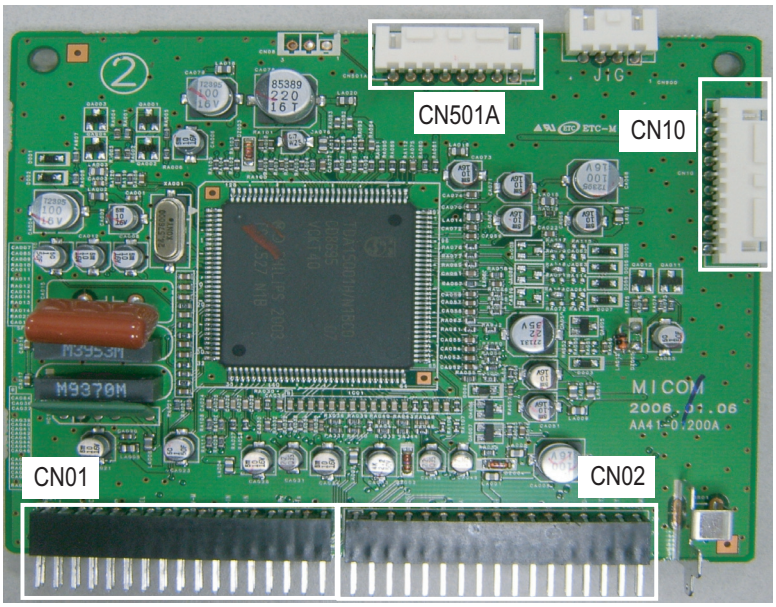
PIN No.	Pin Name
1	L+
2	L-
3	R+
4	R-

CN502
Connected to CRT Ass'y

PIN No.	Pin Name
1	-16.5V
2	+16.5V
3	GND
4	HEATER
5	NC
6	200V

9-2 Micom Board

9-2-1 Assy Micom



■ The Micom Board that Controls Various Signal Processing & Power for Operations.

9-2-2 Names & Roles of Key Parts

* CN501A : 8 pin port connected to the CRT Assy, and outputs final R/G/B signals to the CRT Assy.
* CN10 : 10 pin port connected to the Side AV, and receives S-Video and external AV input.
* CN01, CN02 : 34 pin port inserted into the Main Assy, which connects various signal control ports necessary for operation.

9-2-3 Micom Module Connector Pin

CN10
Connected to the Side AV Ass'y

PIN No.	Pin Name
1	Y IN
2	GND
3	C IN
4	GND
5	CVBS IN
6	GND
7	AUDIO L
8	GND
9	AUDIO R
10	GND

CN501A
Connected to the CRT Ass'y

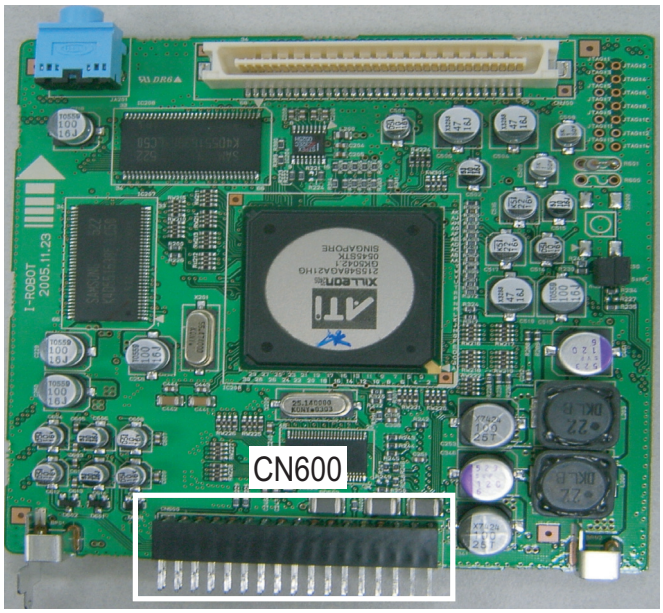
PIN No.	Pin Name
1	B
2	G
3	R
4	GND
5	SB
6	GND
7	SVM
8	GND

CN01,CN02
Connected to the Main Ass'y

Pin Name	PIN No.	PIN No.	Pin Name
GND	1	2	PROTECT
A-IF	3	4	GND
GND	5	6	COMP-Pr-IN
AGC	7	8	COMP-Pb-IN
GND	9	10	COMP-Y-IN
ANT-SEL	11	12	GND
DTV-L-OPTICAL	13	14	COMP-R-IN
DTV-R-OPTICAL	15	16	COMP-L-IN
DTV-MONITOR	17	18	GND
GND	19	20	AV1-V-IN
DTV-Lt-IN	21	22	AV1-R-IN
DTV-Rt-IN	23	24	AV1-L-IN
GND	25	26	GND
MICOM_UART_Rx	27	28	MONITOR-V-OUT
MICOM_UART_Tx	29	30	MONITOR-L-OUT
GND	31	32	MONITOR-R-OUT
B/+5V	33	34	GND
DTV-Pr-IN	35	36	X-RAY
DTV-Pb-IN	37	38	ABL
DTV-Y-IN	39	40	GND
nRESET	41	42	VD+
GND	43	44	VD-
SCL	45	46	V-SYNC
SDA	47	48	GND
GND	49	50	H-SYNC
A/+3.3V	51	52	H-DRIVE
GND	53	54	EW-DRIVE
B/+5V	55	56	GND
GND	57	58	TILT
IR	59	60	POWER
STD-LED	61	62	RELAY
KEY2	63	64	GND
KEY1	65	66	AMP-R
S-MUTE	67	68	AMP-L

9-3 DTV Module

9-3-1 Assy DTV-module



■ The DTV module Board

9-3-2 Names & Roles of Key Parts

* CN600 : 34 pin port inserted into the Main Assy, which connects various signal control ports necessary for operation.

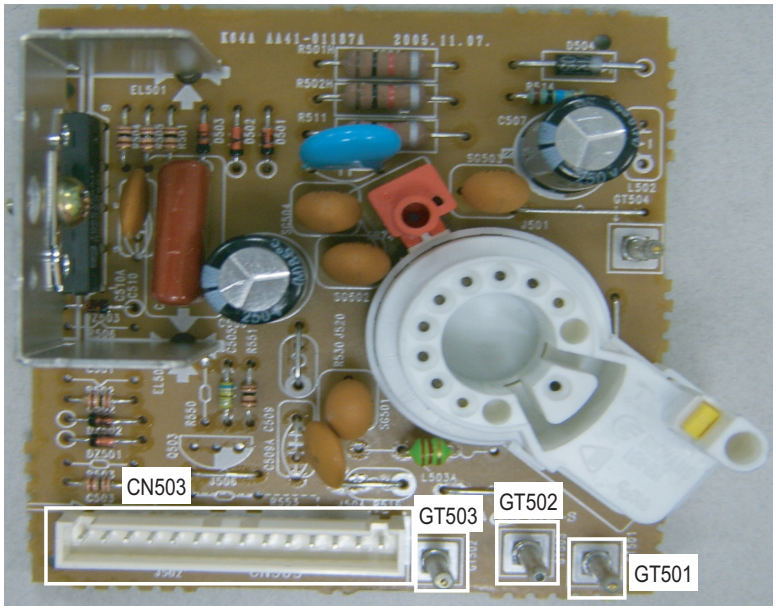
9-3-3 Micom Module Connector Pin

CN600A
Connected to the Main Ass'y

Pin Name	PIN No.	PIN No.	Pin Name
IF_P	1	2	GND
IF_N	3	4	DTV-MONITOR
GND	5	6	GND
IF_AGC	7	8	DTV-Pr-IN
GND	9	10	DTV-Pb-IN
DTV-L-OPTICAL	11	12	DTV-Y-IN
DTV-R-OPTICAL	13	14	GND
DTV-Lt-IN	15	16	GND
DTV-Rt-IN	17	18	GND
GND	19	20	GND
GND	21	22	B/+5V
OPTICAL-OUT	23	24	GND
A/+12V	25	26	A/+12V
GND	27	28	GND
USB_POWER	29	30	nRESET
USB_IN	31	32	MICOM_UART_Rx
USB_P	33	34	MICOM_UART_Tx

9-4 CRT Board

9-4-1 Assy CRT Board



■ The CTV module Board

9-4-2 Names & Roles of Key Parts

* GT501, GT502, GT503 : The TBC-WIRE connection port. This port plays the role of the CRT GND.
* CN503 : The R/G/B output signal from the Micom & the power, which is required to drive the CRT nd the AMP, from the Main Assy is connected to this port.

9-4-3 Micom Module Connector Pin

CN503
Connected to the Main Ass'y

PIN No.	Pin NAME
1	B+ 210V
2	NC
3	HEATER
4	GND
5	+16.5V
6	-16.5V
7	GND
8	VM
9	GND
10	SE
11	GND
12	R
13	G
14	B

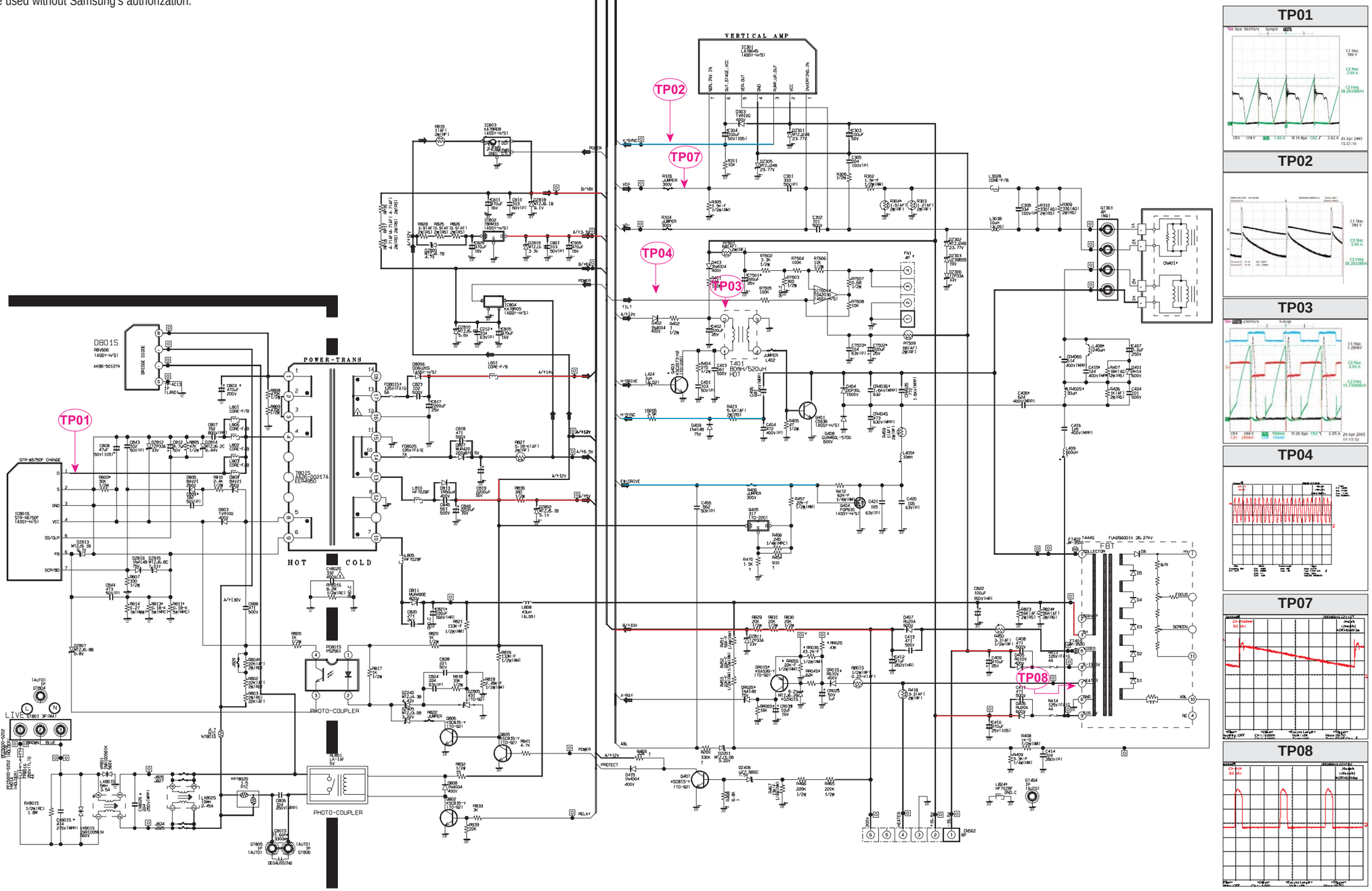
10. Schematic Diagram

10-1 Main Board

10-1-1 Power & Deflection Block

This Document can not be used without Samsung's authorization.

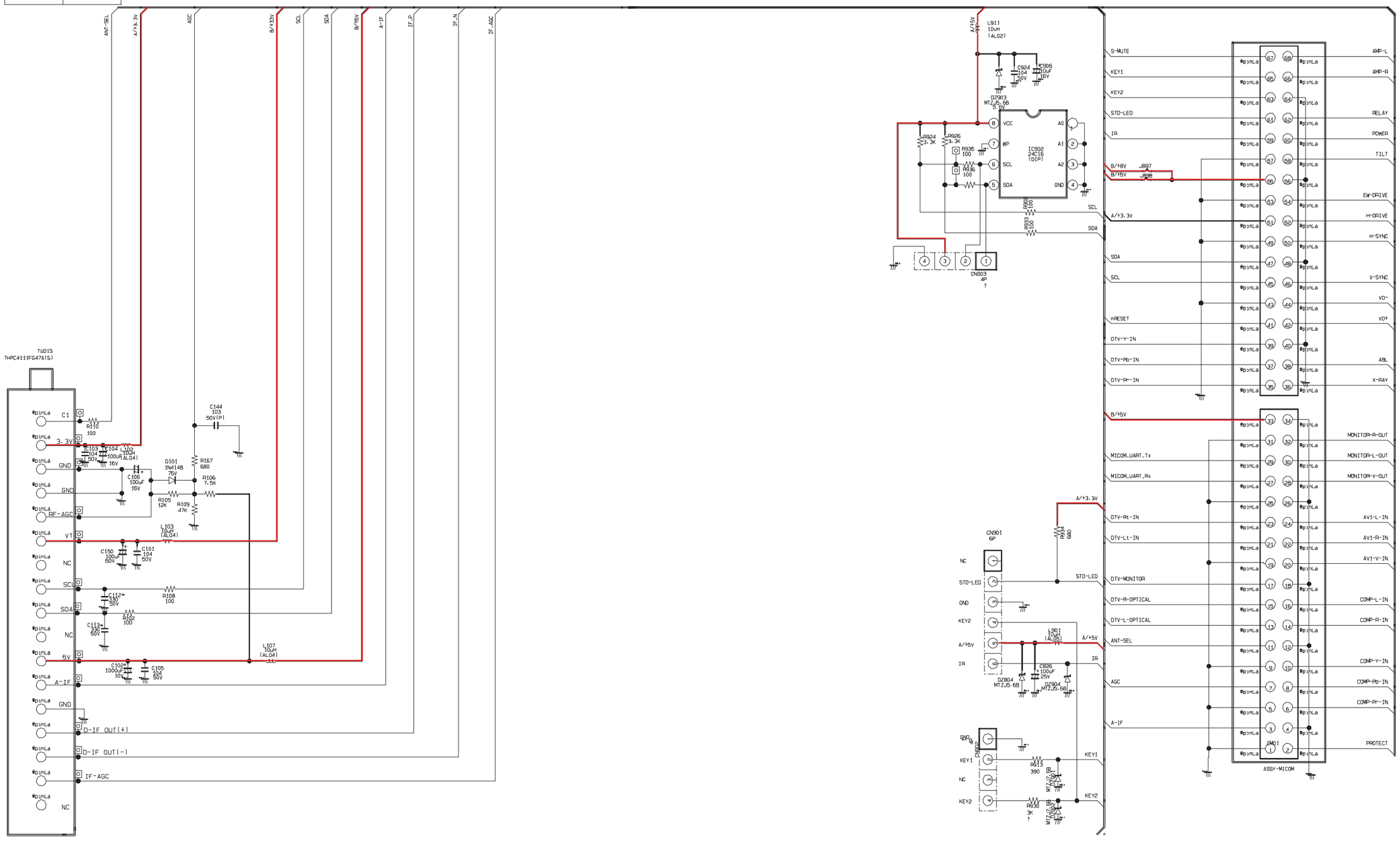
———	Power
———	Signal



10-1-2 Tuner & Connector(Micom) Block

This Document can not be used without Samsung's authorization.

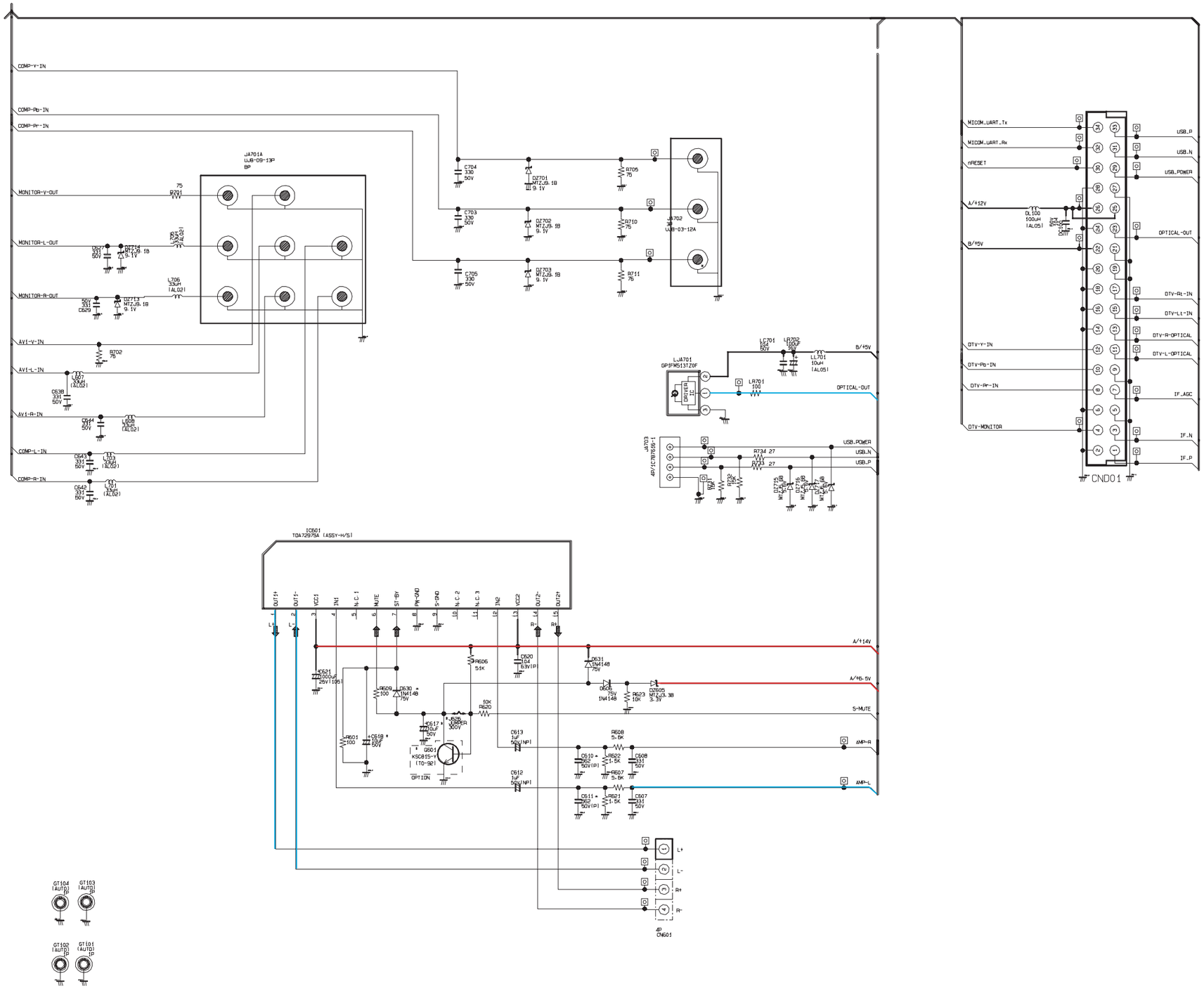
	Power
	Signal



10-1-3 AV & Sound Block

This Document can not be used without Samsung's authorization.

———	Power
———	Signal

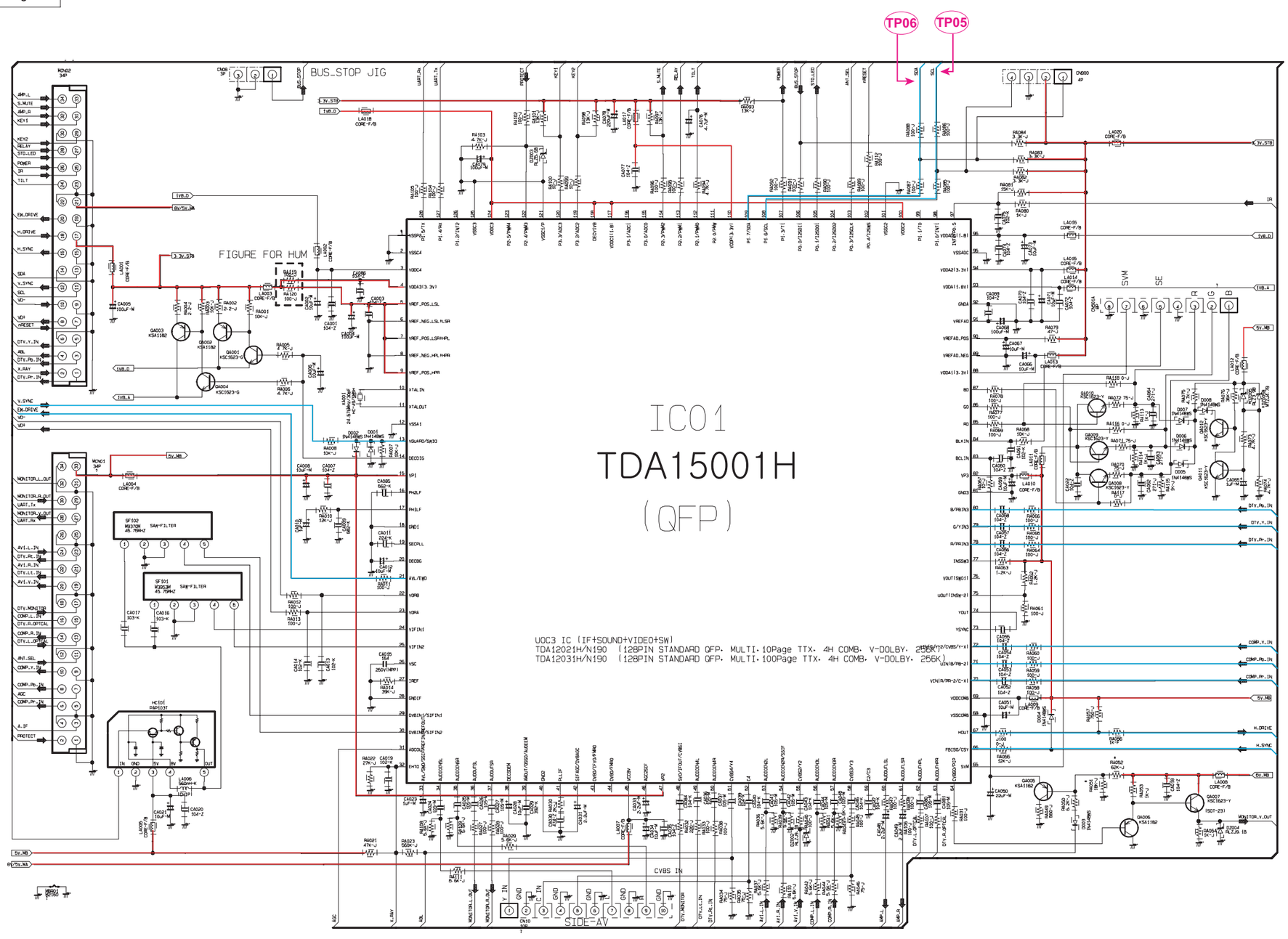


10-2 Micom Board

10-2-1 IF & UOC(Chroma, Micom) Block

This Document can not be used without Samsung's authorization.

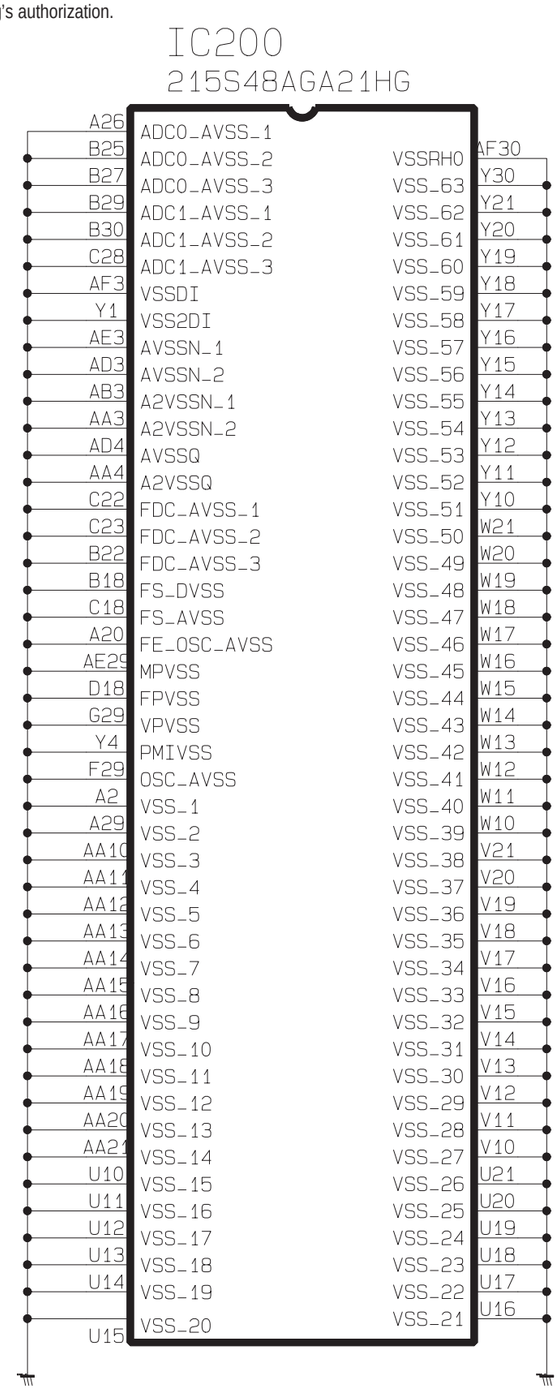
———	Power
———	Signal

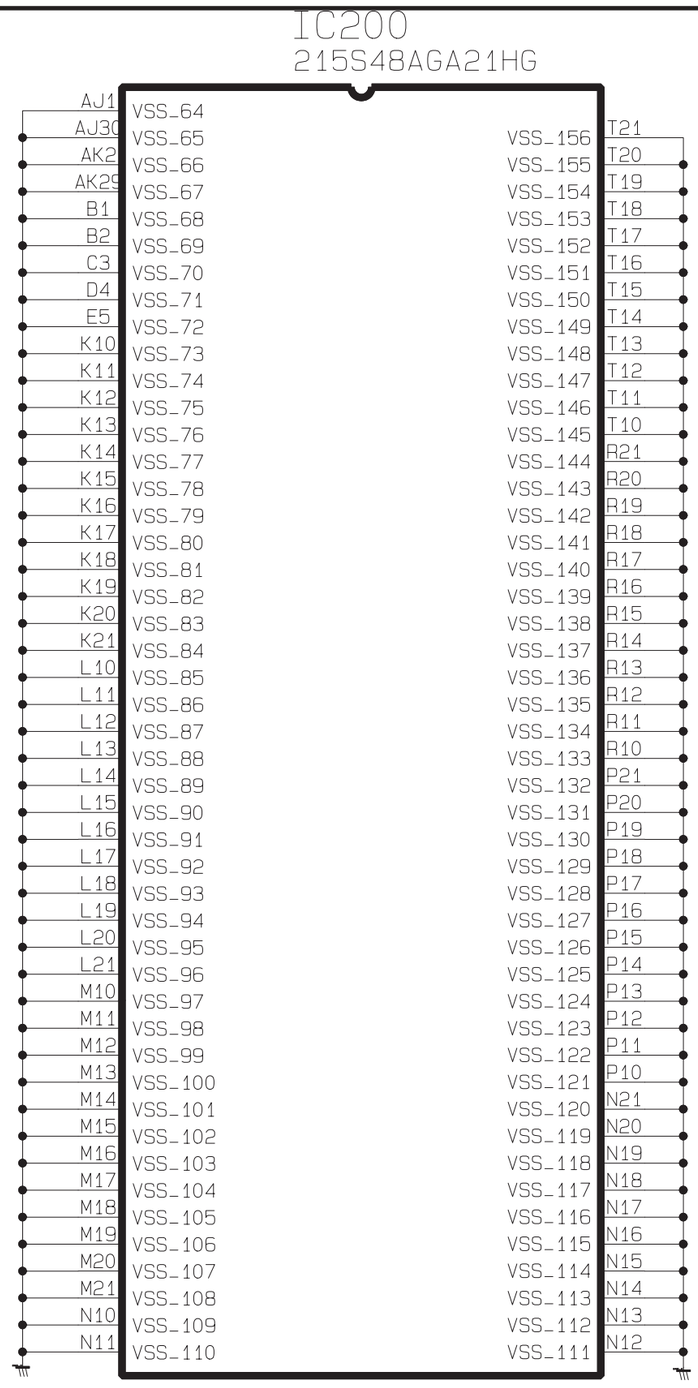


10-3 DTV-Module Board

10-3-1 X240 Block

This Document can not be used without Samsung's authorization.

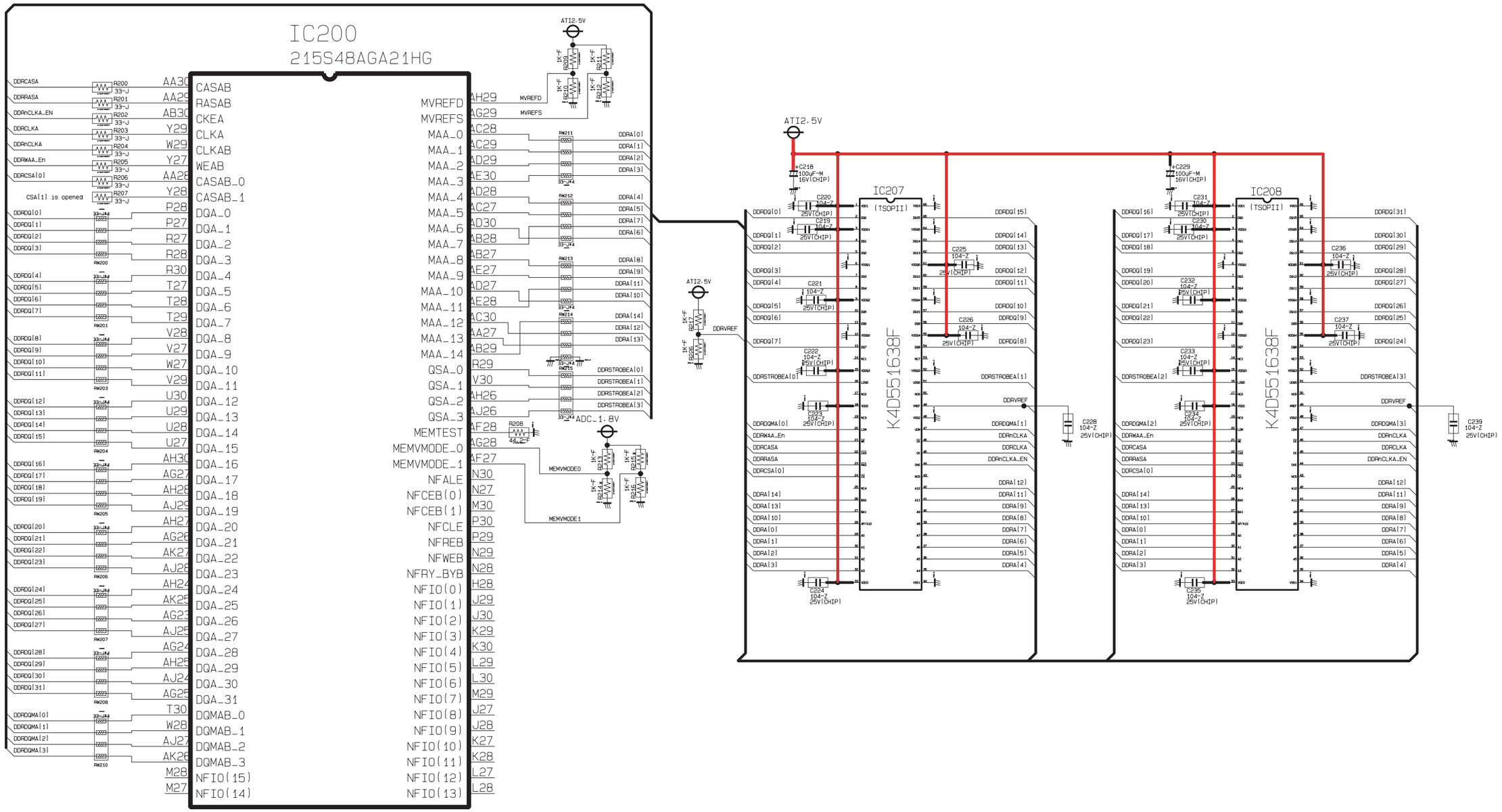




10-3-2 X240 (DDR Memory I/F) Block

This Document can not be used without Samsung's authorization.

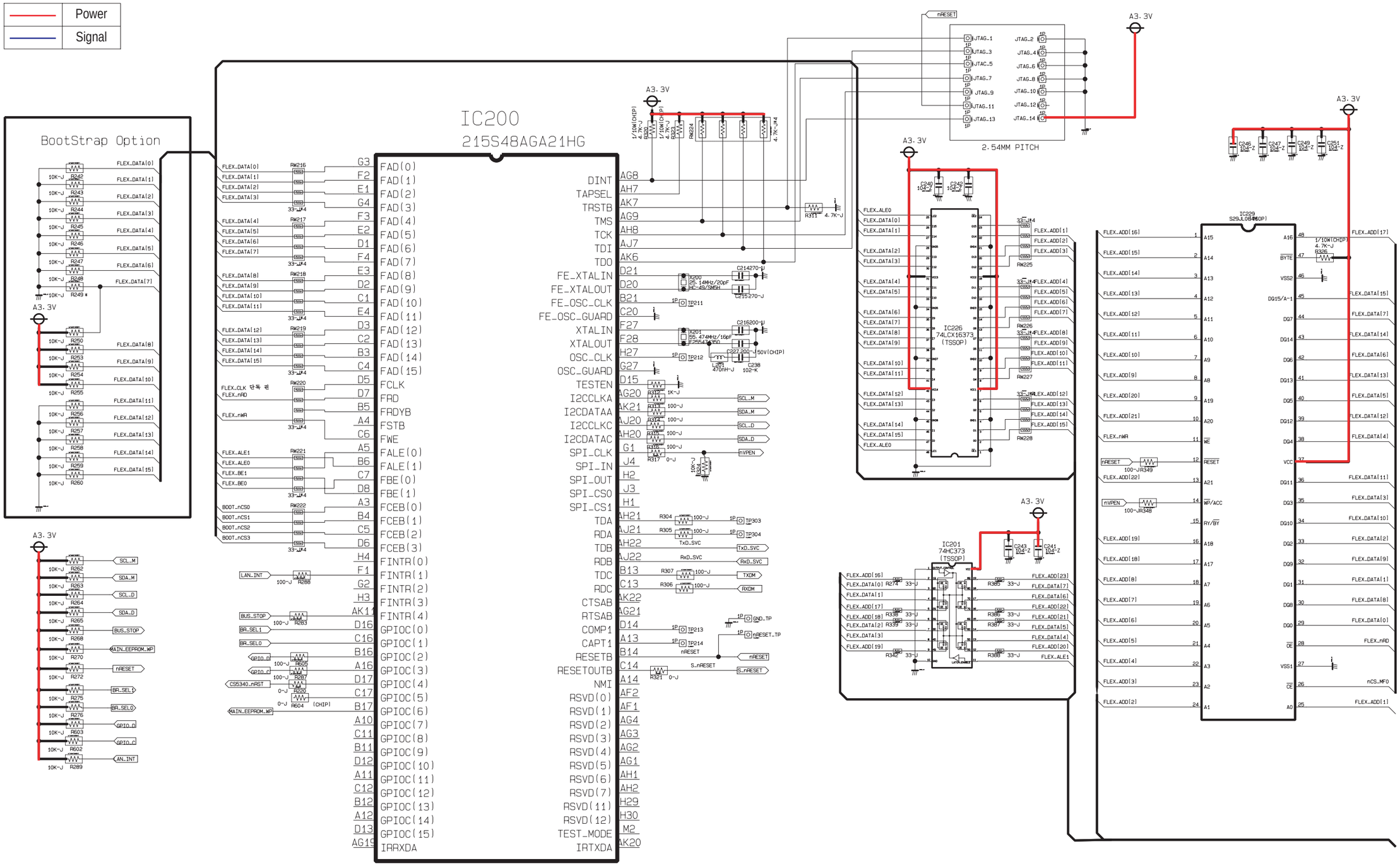
———	Power
———	Signal



10-3-3 X240 (Flash Memory I/F & GPIOs) Block

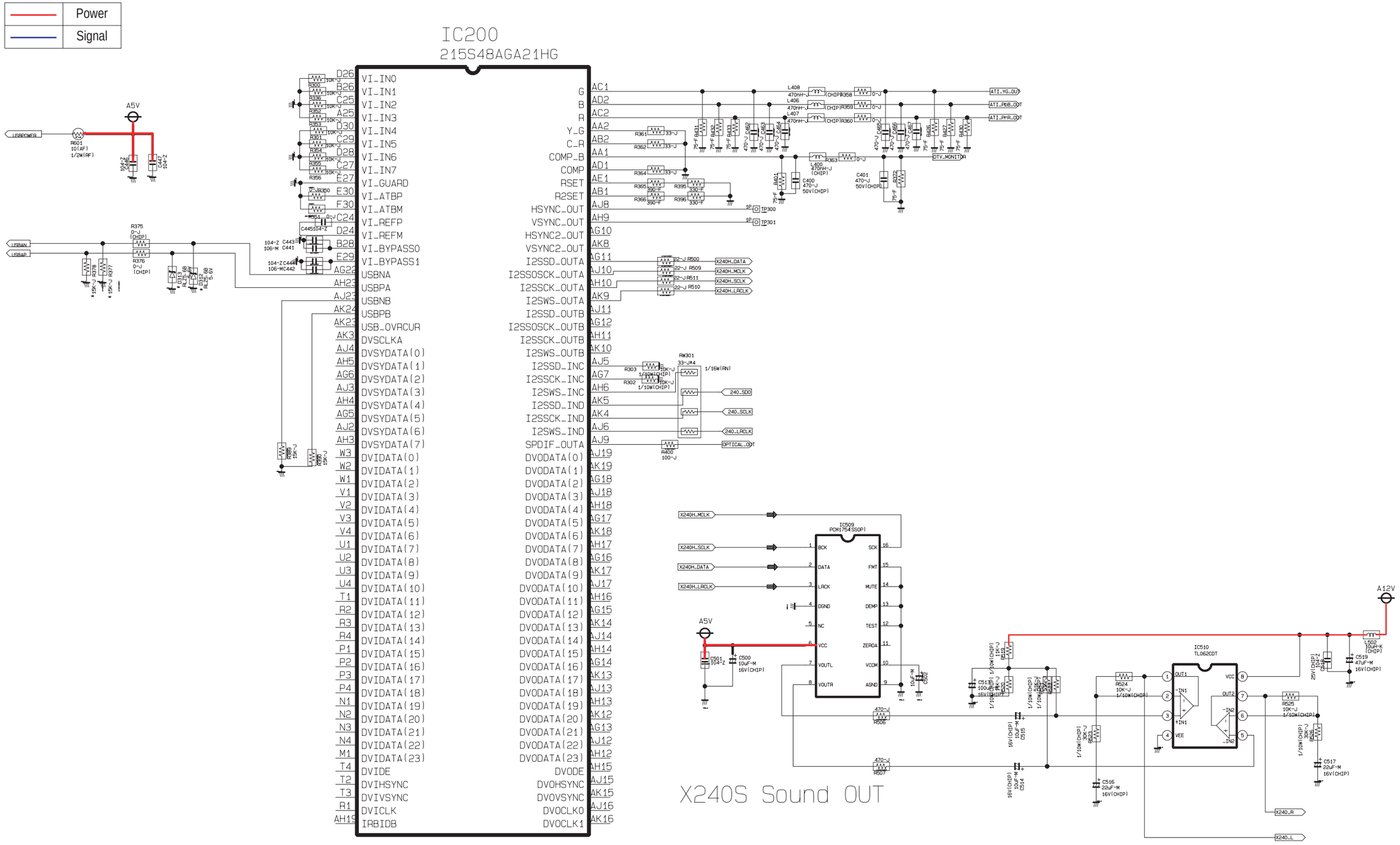
This Document can not be used without Samsung's authorization.

Power
Signal



10-3-4 X240 (Sound & Video) Block

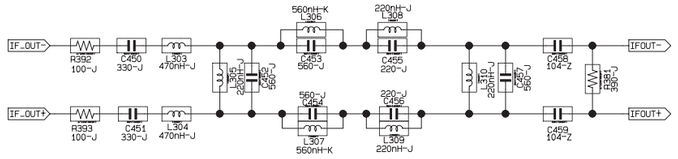
This Document can not be used without Samsung's authorization.

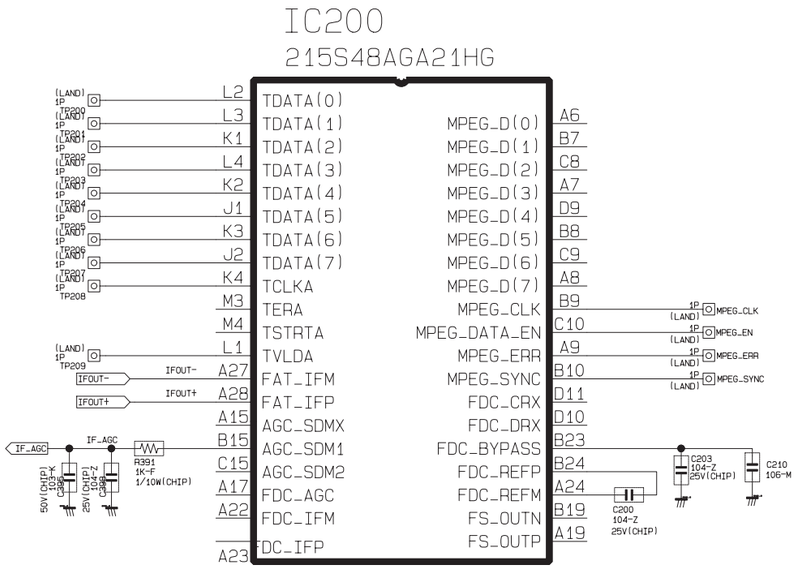


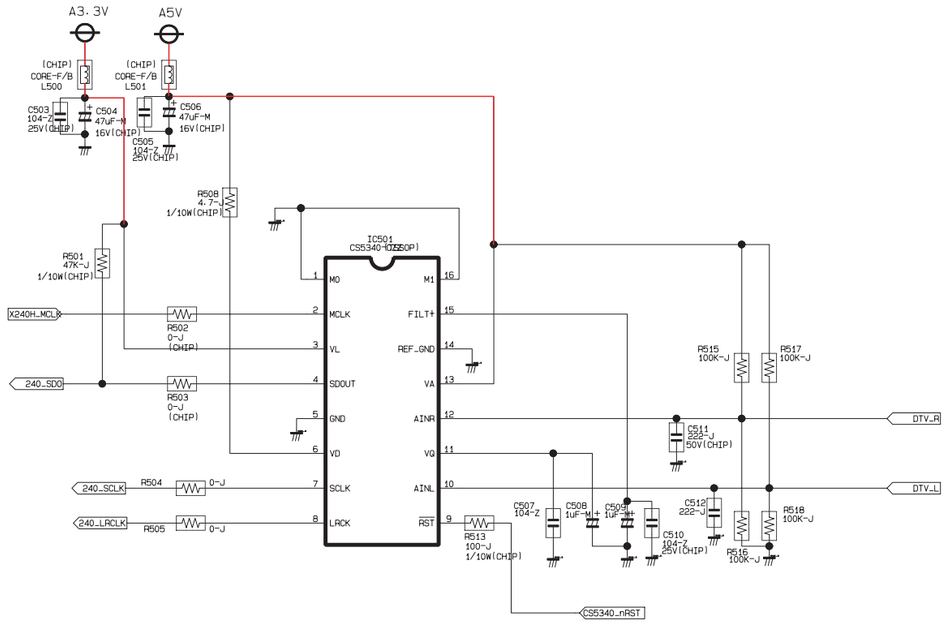
10-3-5 X240 (DTV) Block

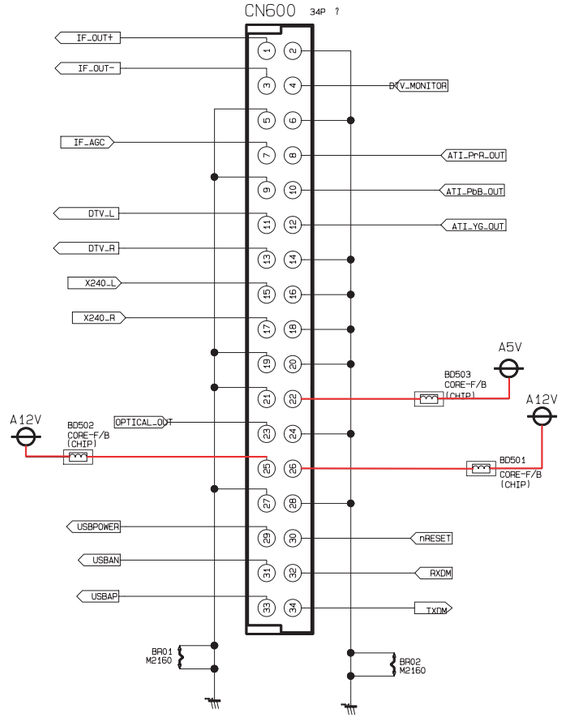
This Document can not be used without Samsung's authorization.

———	Power
———	Signal





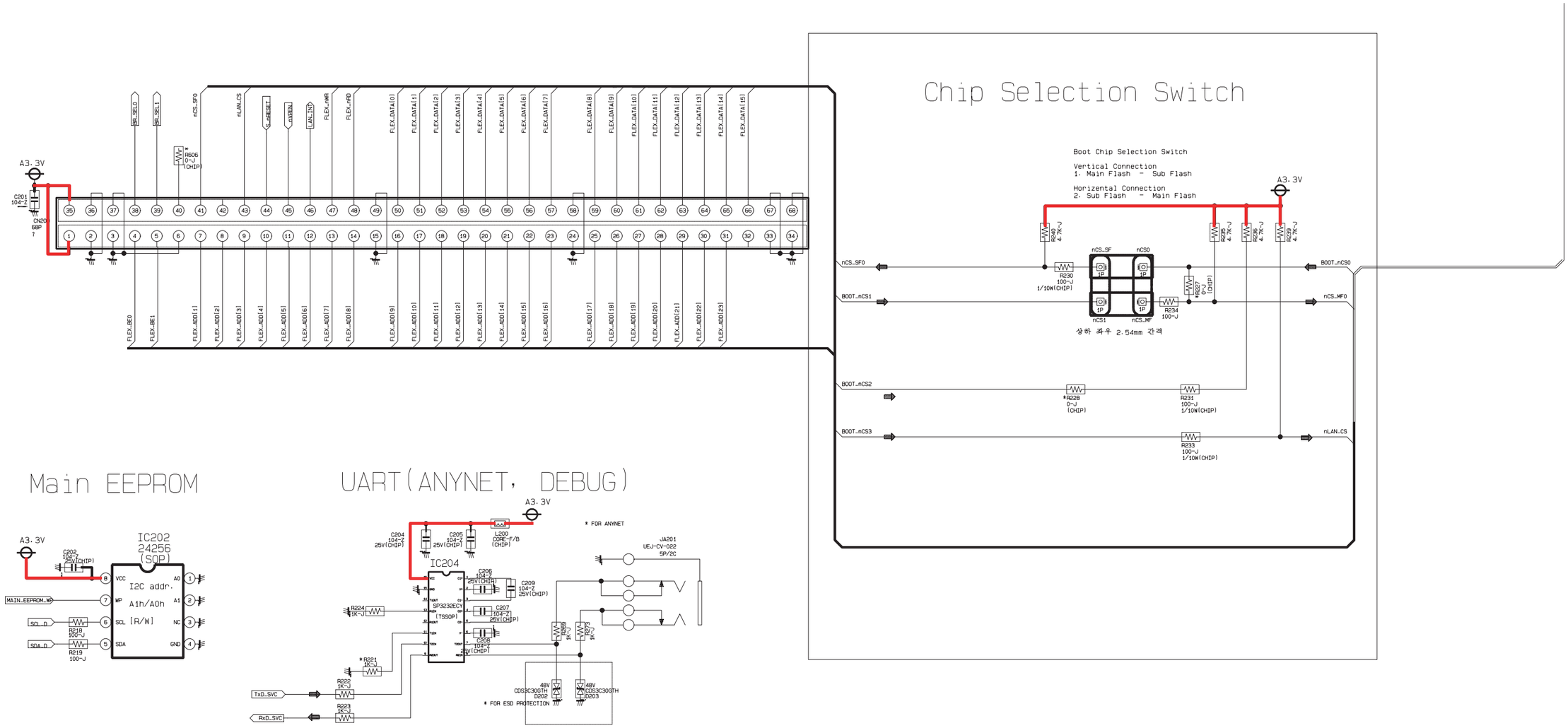




10-3-6 EEPROM & UART(DEBUG) Block

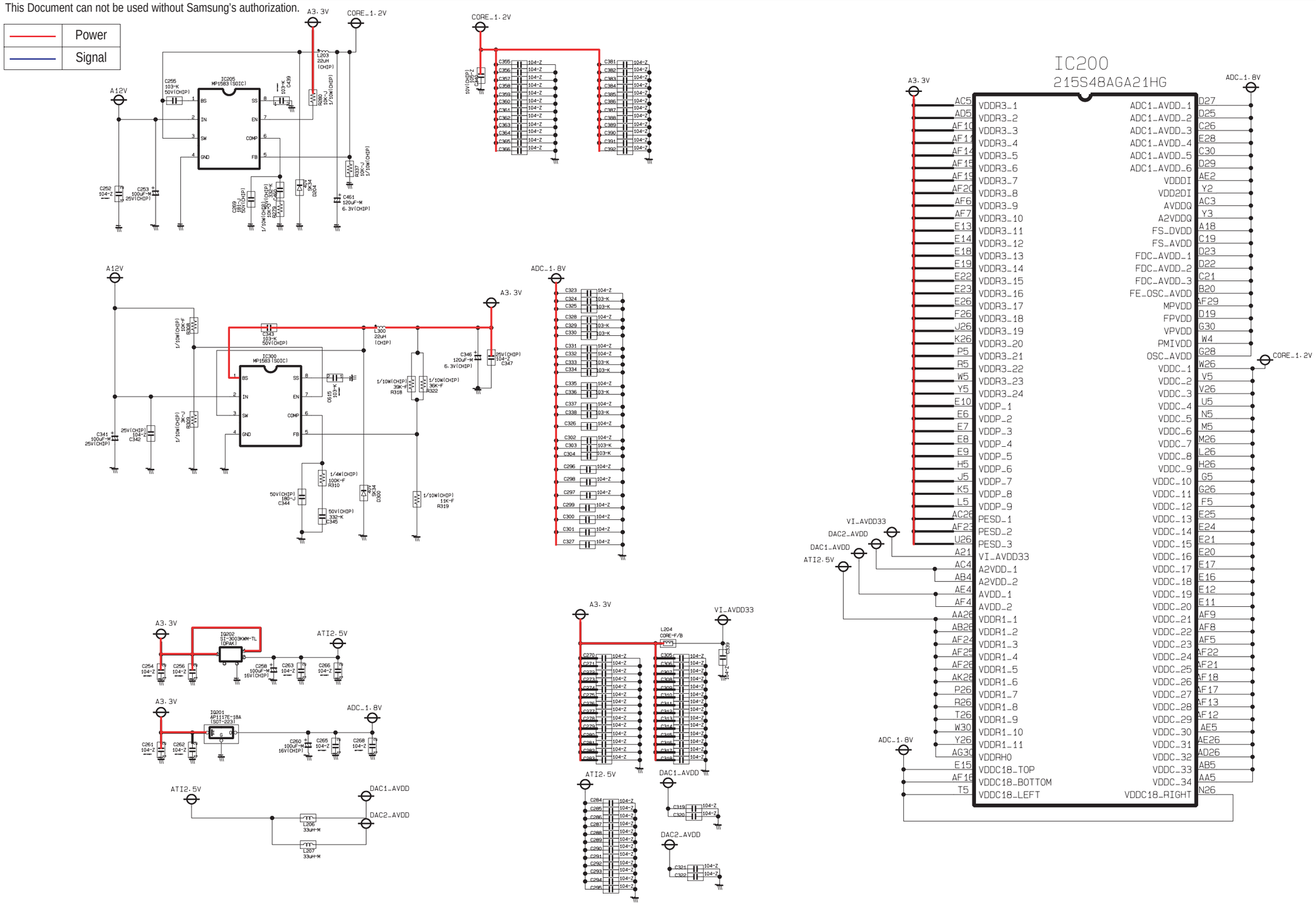
This Document can not be used without Samsung's authorization.

———	Power
———	Signal



10-3-7 X240 (Power) Block

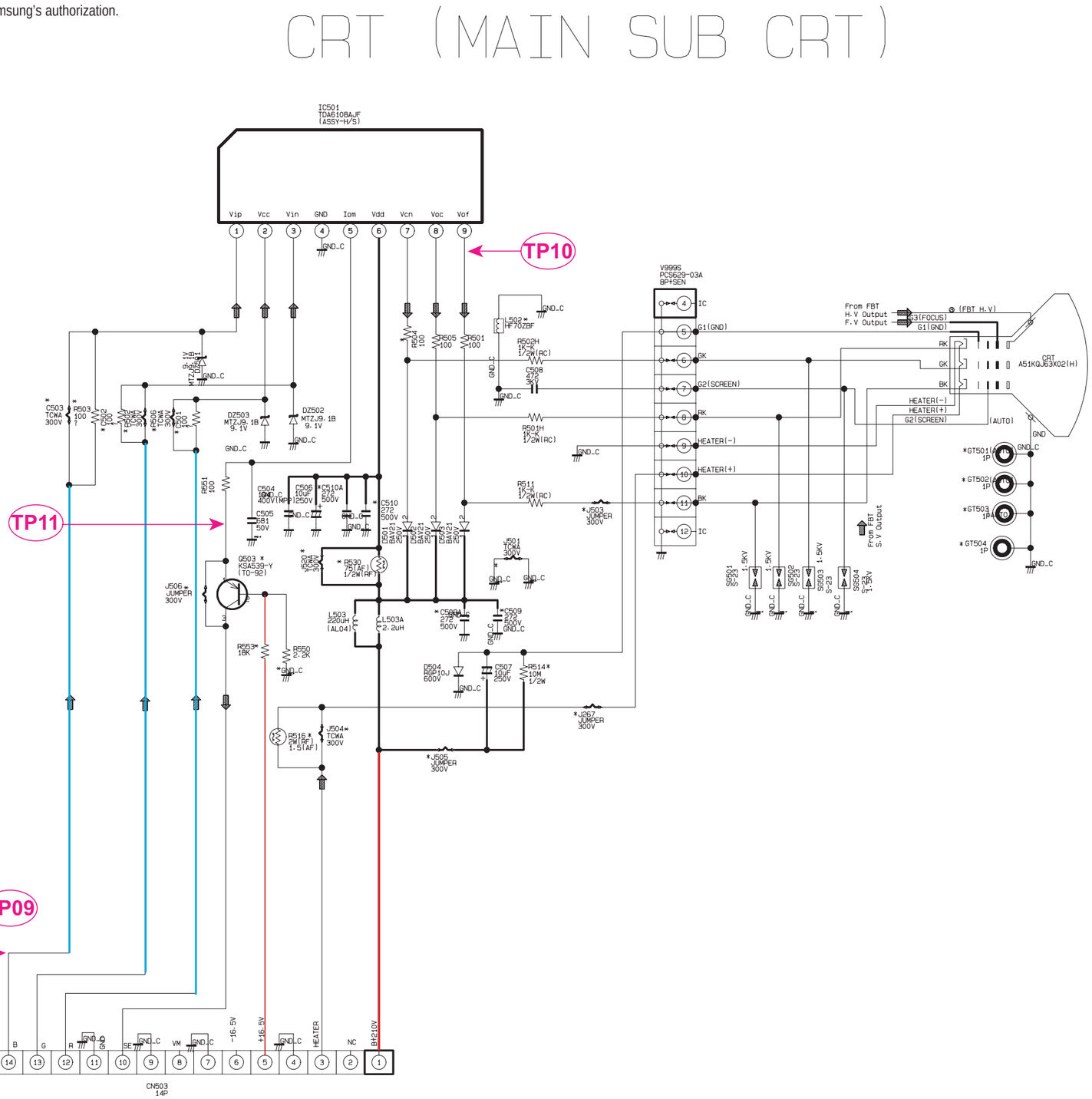
This Document can not be used without Samsung's authorization.

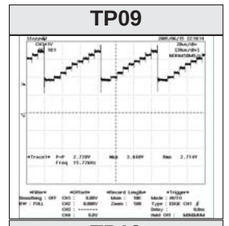


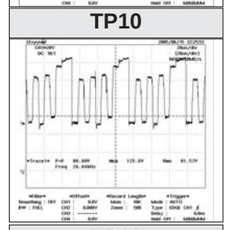
10-4 CRT Block

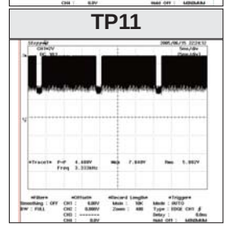
This Document can not be used without Samsung's authorization.

———	Power
———	Signal



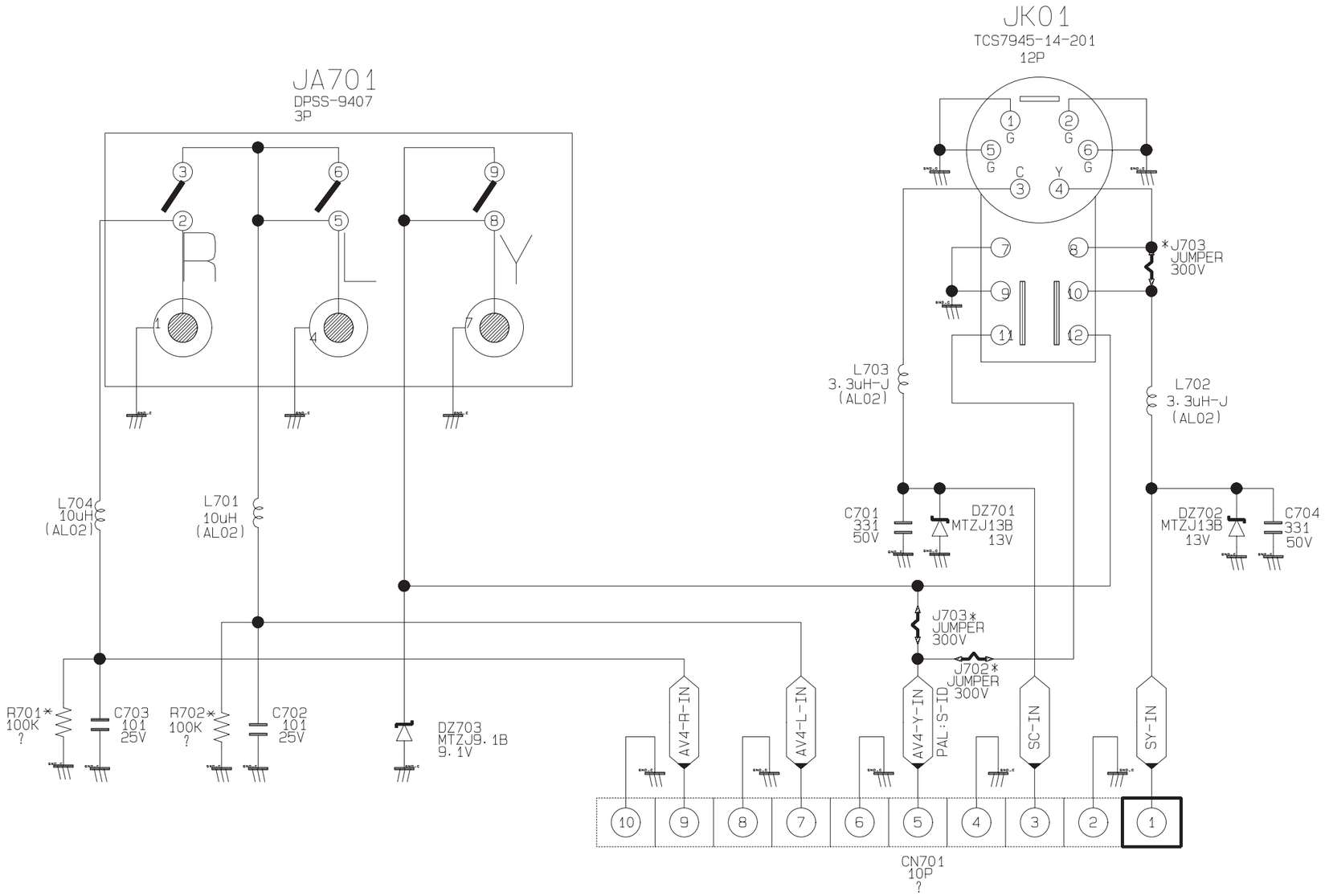






10-5 AV Board

This Document can not be used without Samsung's authorization.

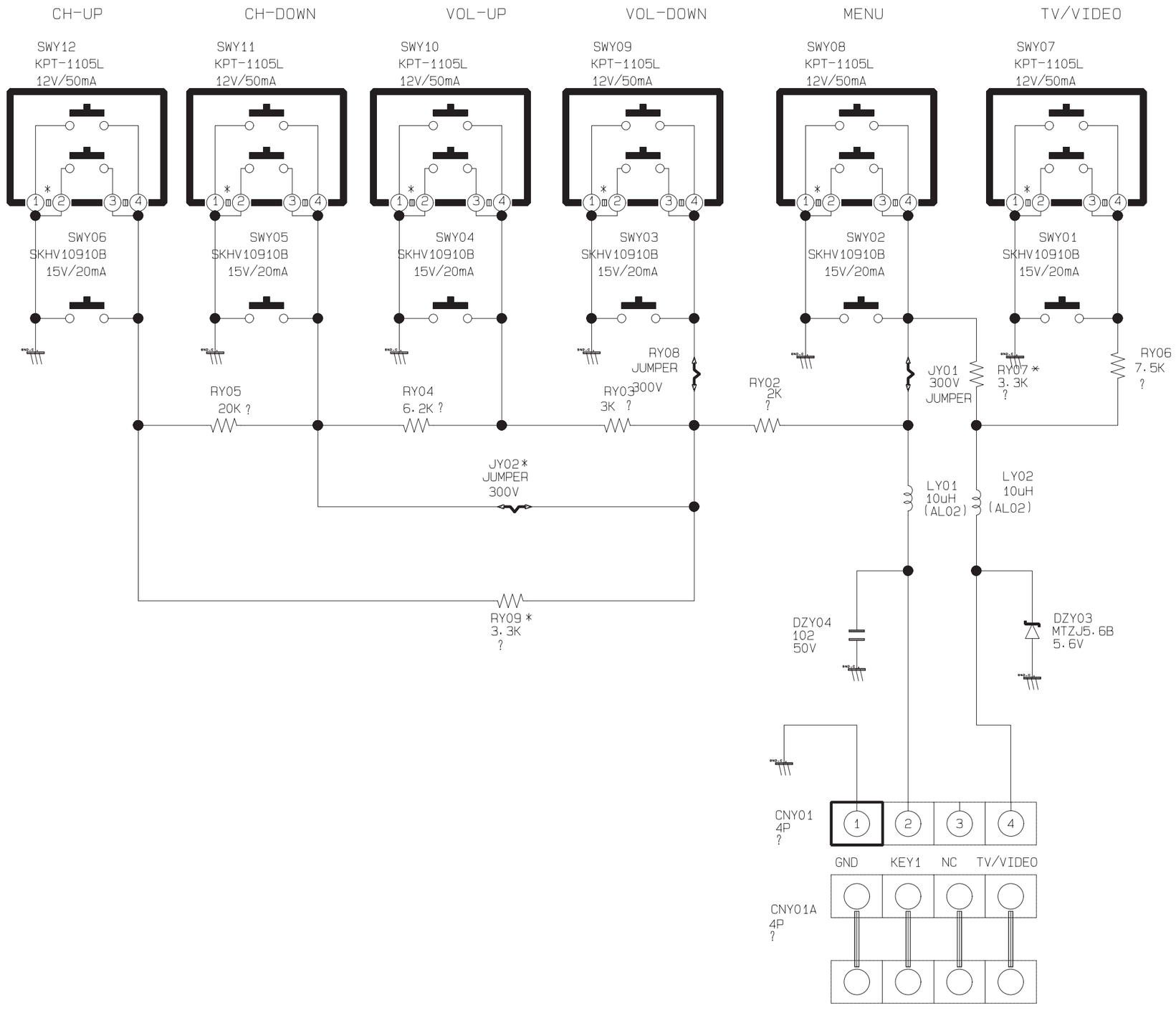


OPTION

LOC	NT	PAL
J701	DELETE	JUMPER
J702	DELETE	JUMPER
J703	JUMPER	DELETE
R701	DELETE	1/8W 100K
R702	DELETE	1/8W 100K

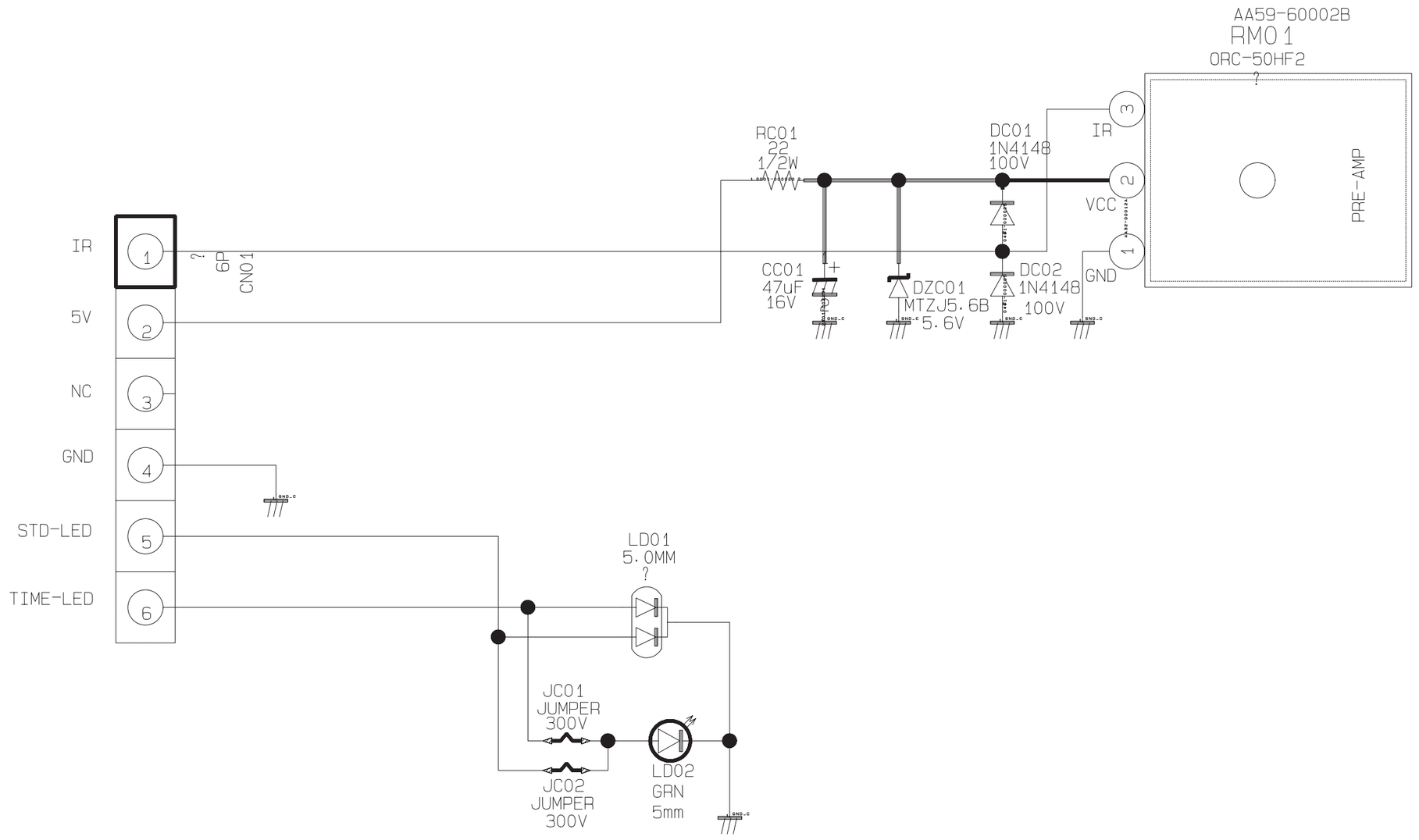
10-6 Control Board

This Document can not be used without Samsung's authorization.



10-7 Control Board

This Document can not be used without Samsung's authorization.

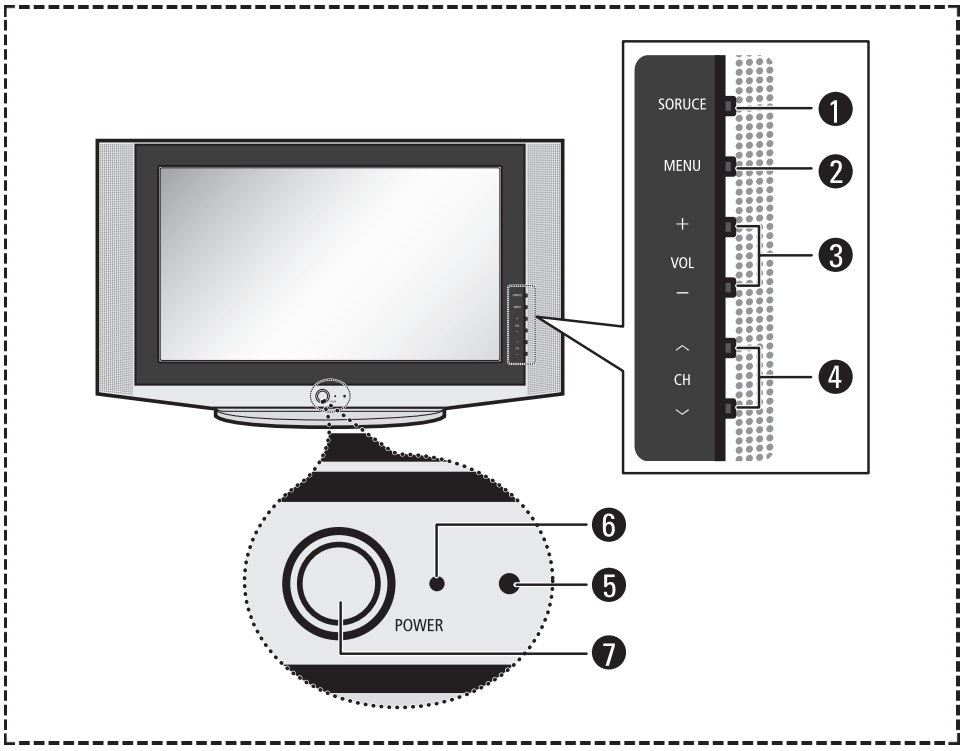


11. Operation Instruction & Installation

11-1 Product Features and Functions

11-1-1 Control Buttons

You can control your TV's basic features, including the on-screen menu.
To use the more advanced features, you must use the remote control.



1 SOURCE
Press to change between viewing TV programs and signals from other components.

2 MENU
Press to see an on-screen menu of your TV's features.

3 – VOL +
Press to increase or decrease the volume.
Also used to select items on the on-screen menu.

4 ∨ CH ∧
Press to change channels. Also press to move between items on the on-screen menu.

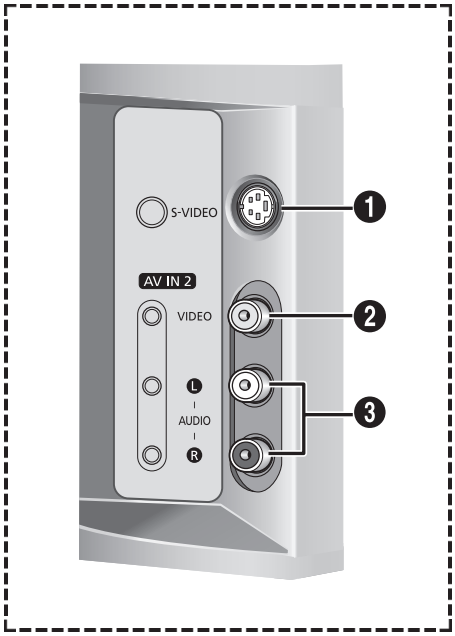
5 Remote Control Sensor
Aim the remote control towards this spot on the TV.

6 Stand-By Indicator
Lights up when you turn the power off.
- Power Off ; Red
- Power On ; Off

7 POWER
Press to turn the TV on and off.

11-1-2 Side Panel Jacks

You can use the side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game.



1 S-VIDEO Input
Connect an S-Video signal from a camcorder or video game.

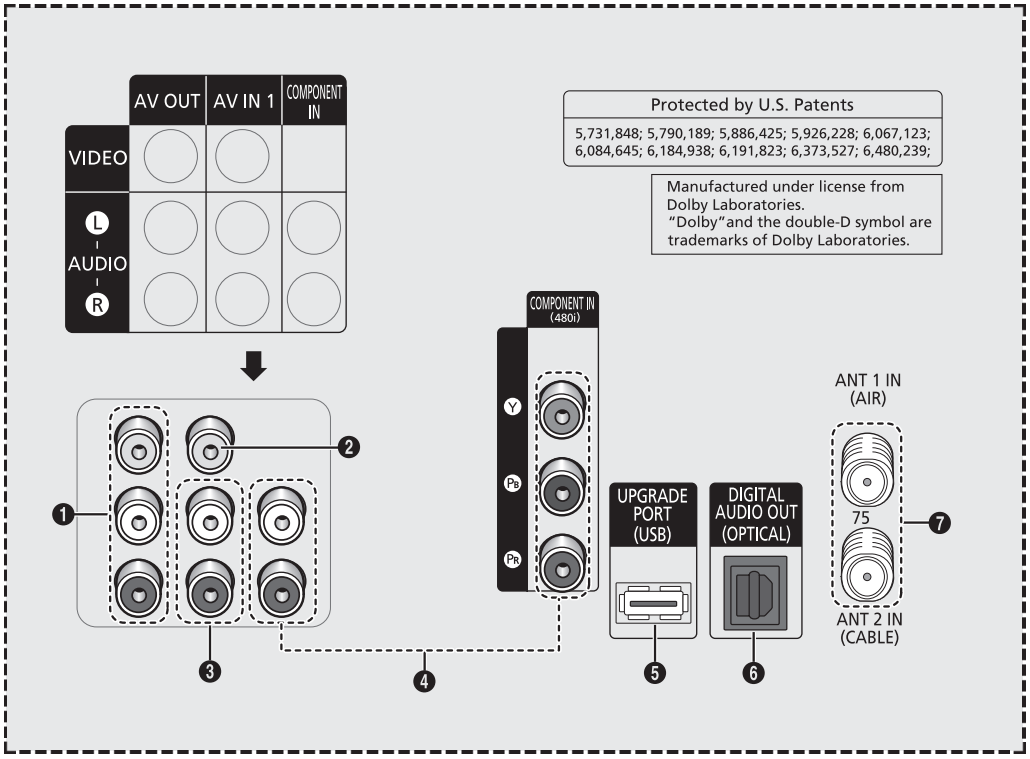
2 VIDEO Input
Connect a video signal from a camcorder or video game.

3 AUDIO Input
Connect audio signals from a camcorder or video game.

- Please be sure to match the color coded input terminals and cable jacks.

11-1-3 Connection Jacks (Rear)

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.



- Please be sure to match the color coded input terminals and cable jacks.

1 Audio-Video Output jacks
Connect to the audio/video input jacks of a recording VCR.

2 Video Input jacks
Connect to the video output jacks of VCRs, DVD players and similar devices.

3 Audio Input jacks
Connect to the audio output jacks of VCRs, DVD players and similar devices.

4 Component Input jacks (Y, P_B, P_R, AUDIO-L/R)
Connect to the Component audio and video outputs of a DVD or DTV set-top box. 480i video signal input is available.

5 UPGRADE PORT (USB)
For service only.

6 Digital Audio Output jack (OPTICAL)
Connect to a Digital Audio component.

7 ANTENNA terminals
Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (AIR)" and "ANT 2 IN (CABLE)" terminals to receive a signal from VHF/UHF antennas or your cable system.

11-1-4 Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote,always point it directly at the TV.

1 POWER
Turns the TV on and off.

2 Number buttons
Press to select channels directly on the TV.

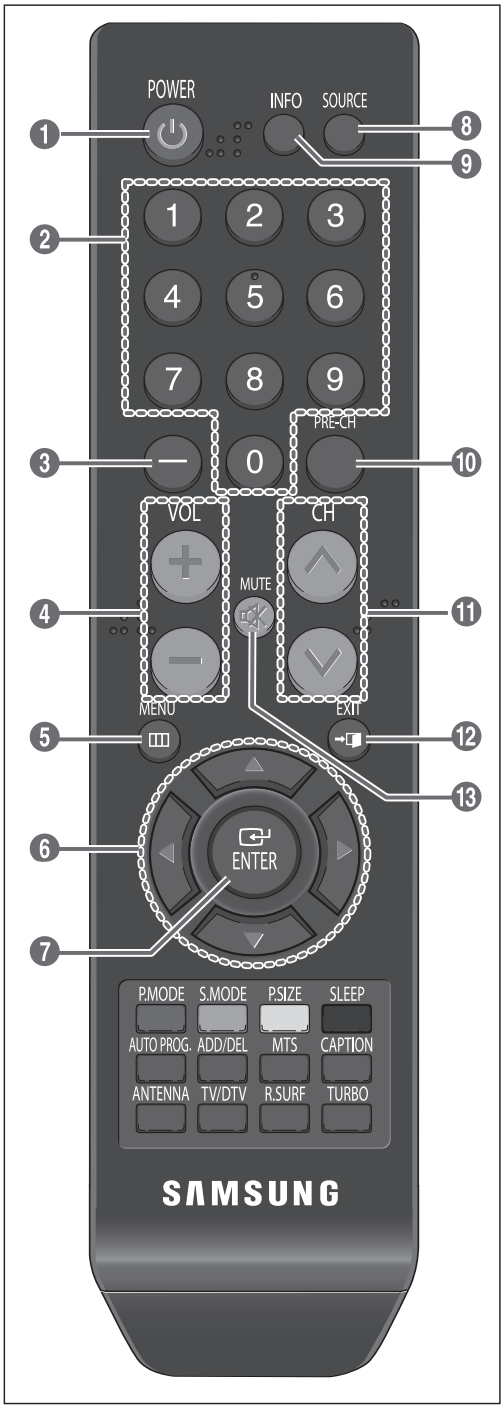
3 –
Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel “54-3”, press “54”, then press “-” and “3”.

4 VOL +, VOL -
Press to increase or decrease the volume.

5 MENU
Displays the main on-screen menu.

6 ▲/▼/◀/▶
Controls the cursor in the menu.

7 ENTER
While using the on-screen menus, press ENTER to activate (or change) a particular item.



8 SOURCE
Press to display all of the available video sources. (Refer to page 40)

9 INFO
Press to display information on the TV screen. (Refer to page 26)

10 PRE-CH
Tunes to the previous channel. (Refer to page 31)

11 CH ∧, CH ∨
Press to change channels.

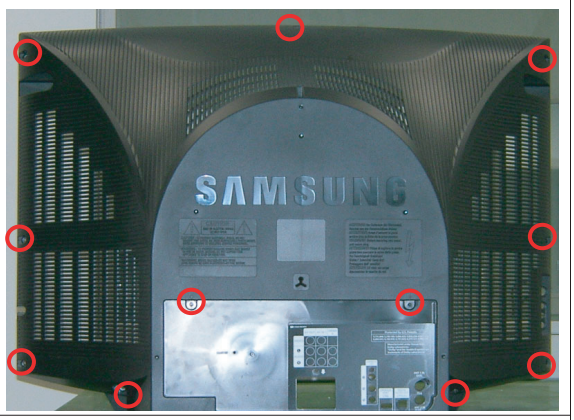
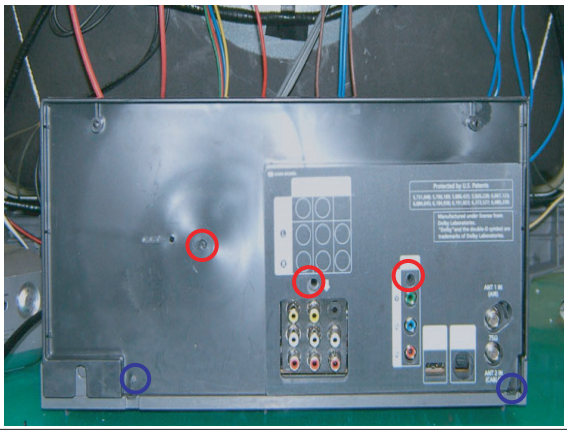
12 EXIT
Press to exit the menu.

13 MUTE
Press to temporarily cut off the sound. (Refer to page 36)

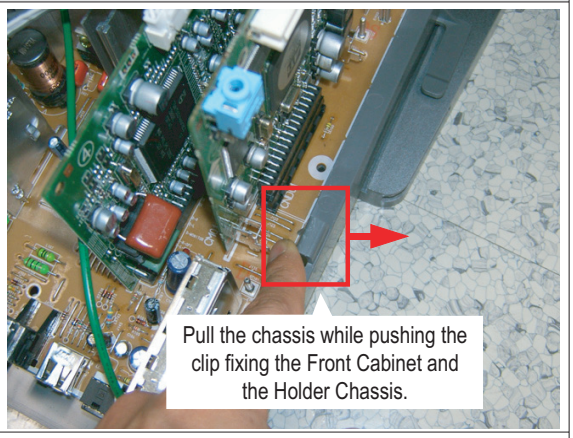
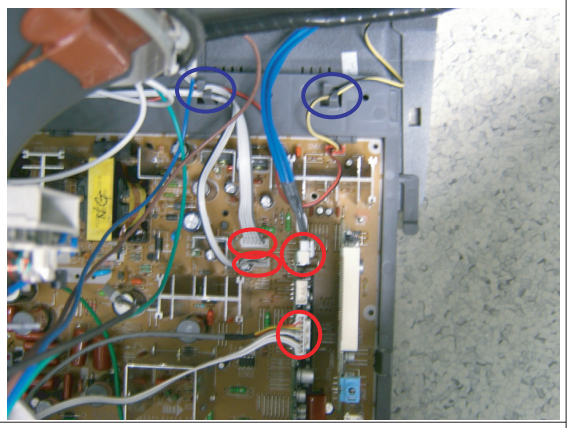
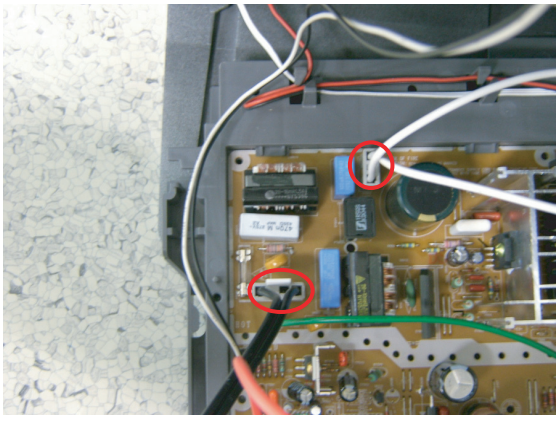
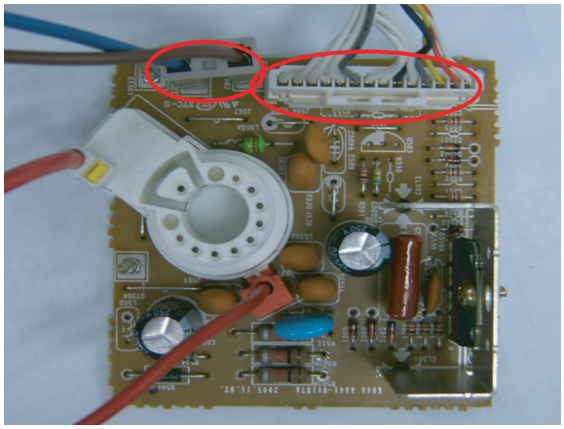
12. Disassembly & Reassembly

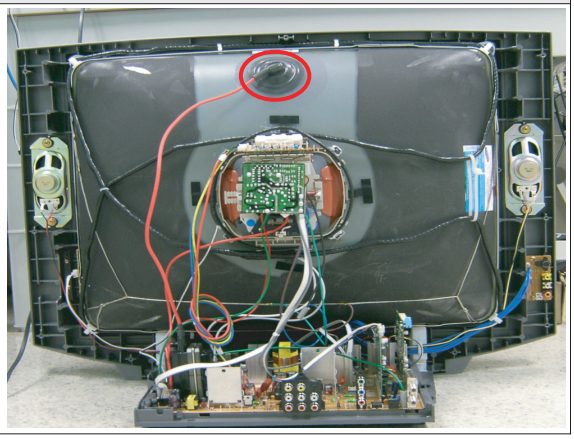
12-1 Overhaul Disassembly & Reassembly

12-1-1 Disassembling the Cabinet

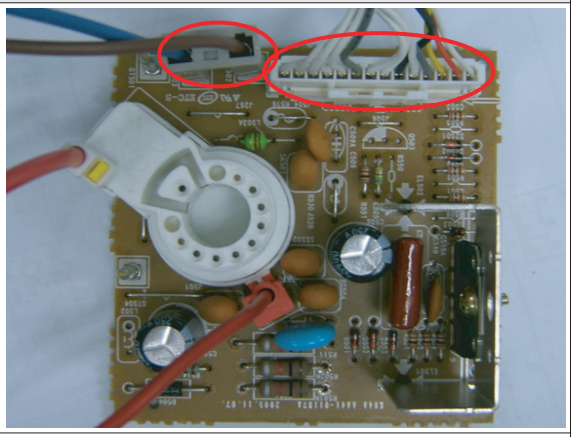
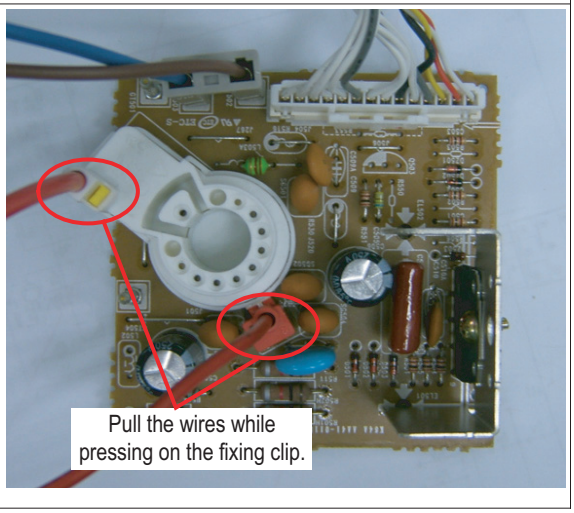
Part Name	Description	Description Photo
Back Cover	① Remove the 11 screws fixing the Back Cover. : RH, +, B, M4, L15, ZPC(BLK), SWRCH18A ② Tap the upper part of the Back Cover 2 or 3 times and pull the Back Cover to separate it from the unit. ⚠: Disassemble the product after disconnecting the power cord and discharge the unit to prevent an electric shock and damage to the product due to static electricity.	
Terminal Board	① Remove the 3 screws fixing the Terminal Board and the Jacks. : RH, +, B, M4, L15, ZPC(BLK), SWRCH18A ② Lift the fixing holder up at ○ and pull the Terminal Board to separate it from the unit.	

12-1-2 Disassembling the CRT and Chassis

Part Name	Description	Description Photo
Chassis Holder	① Separate the Ass'y Holder chassis from the Front Cabinet. ② Pull the Chassis Holder pushing the fixing clip. ⚠: Pulling the Chassis Holder by force may damage the clip or the connector. Pull the Chassis Holder just until the clip comes off the hole.	
	① Separate the Speakers, the Side AV Wire, the Side Control, and the Remote Control Sensor Cable from the Front Cabinet and the Main & Micom Board. ② Separate the wire from the Wire fixing holder at ○. ⚠: Since there is a clip to connect the Connector Header in the Wire Connector, pulling it by force may damage the clip or the connector. Press the clip down completely and pull the connector.	
	① Separate the D-Coil and power cable from the Rear Cabinet and Main Board ② To separate the power cord, slide the fixing clip and lift the cable up.	
	① Separate the CRT Ass'y from the CRT ② Separate the TBC wire, GND cables from the CRT Ass'y sequentially.	

Part Name	Description	Description Photo
Chassis Holder	① Separate the cables connecting the FBT and the CRT. ⚠: Since there may be a remaining high-voltage current within the CRT, take care not to touch the CRT hole with metal or a part of yourself when separating the cables.	

12-1-3 Disassembling the CRT Ass'y

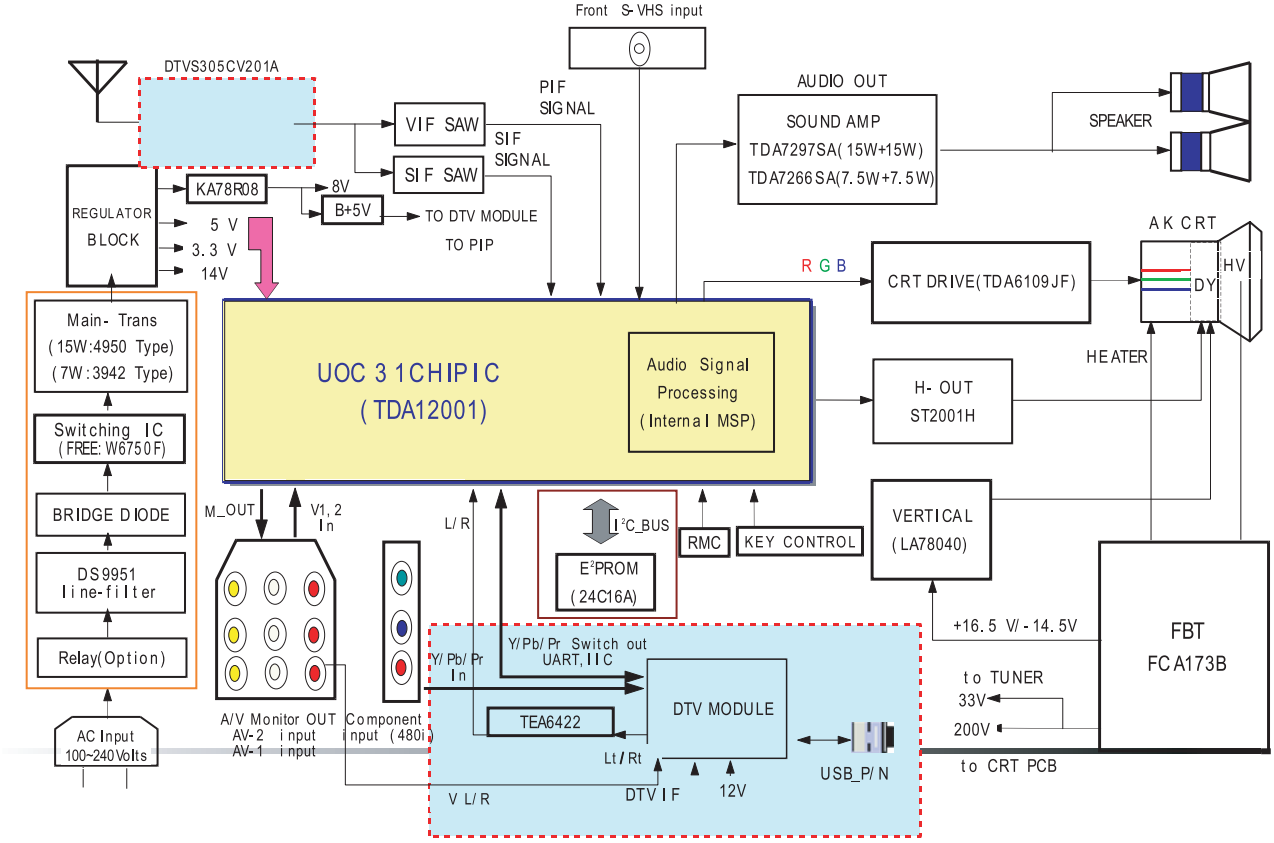
Part Name	Description	Description Photo
CRT Ass'y	① Separate the cables from the Main & Micom Board and CRT Ass'y.	
	① Separate the wires from the FBT of the Main Board and the CRT Ass'y. ② To separate thick wire, pull the wires while pressing the push-type clip at the connector. ③ To separate the thin red wire, insert a pin in the small hold next to the hole and pull the wire. ⚠: Take care when separating the wires because pulling the wires by force may damage the socket. In addition, separate the wires on a flat and clean surface so as to prevent scratching of the material and the PCB.	

MEMO

13. Circuit Description

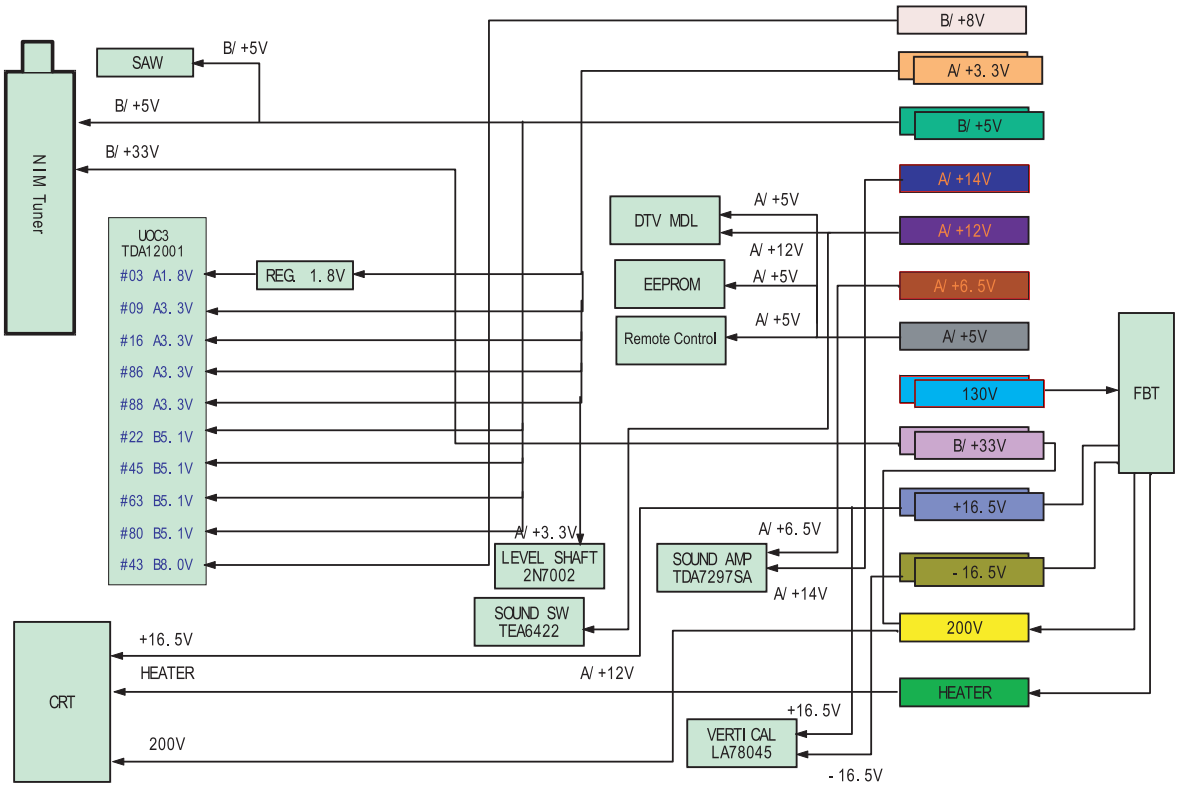
13-1 Overall Block Description

13-1-1 Main Block Description

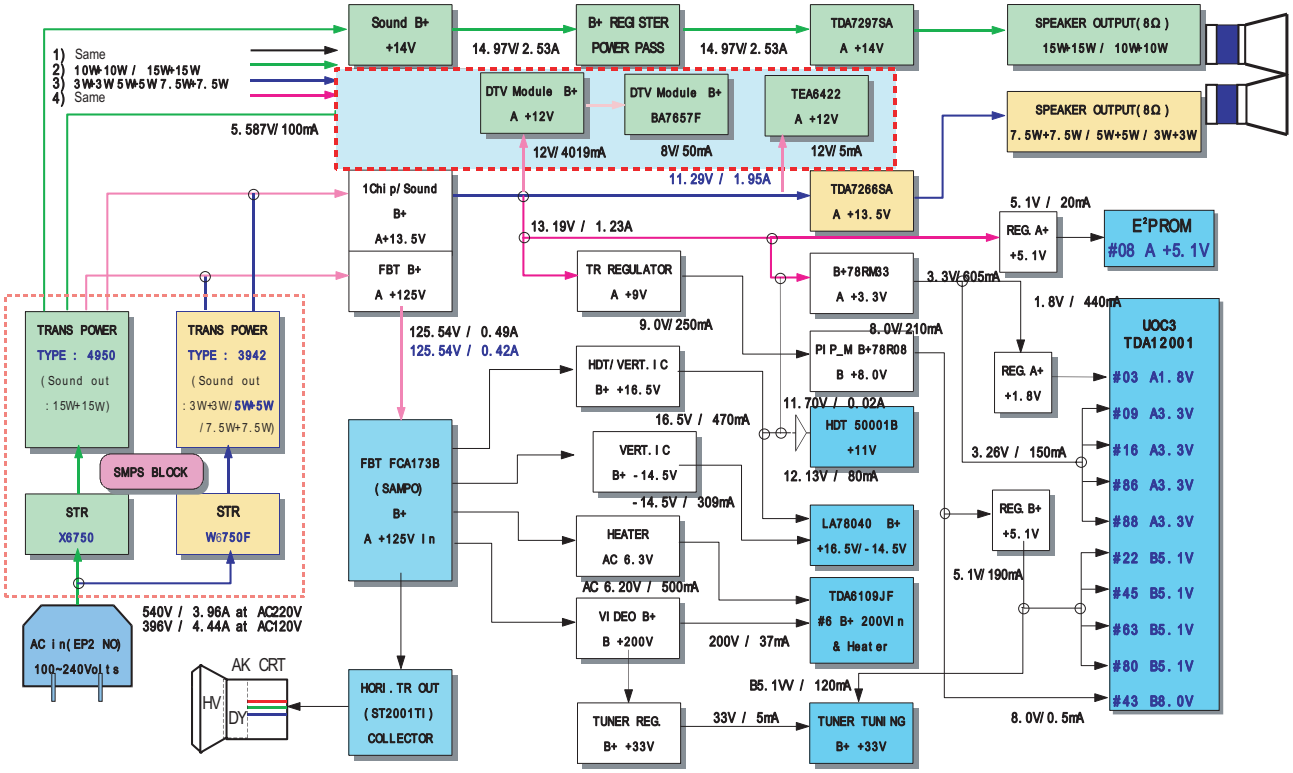


* K64A is a typical analog SD Slimfit TV set adapted to mutiple-function IC, TDA15001H

13-1-2 Power Signal

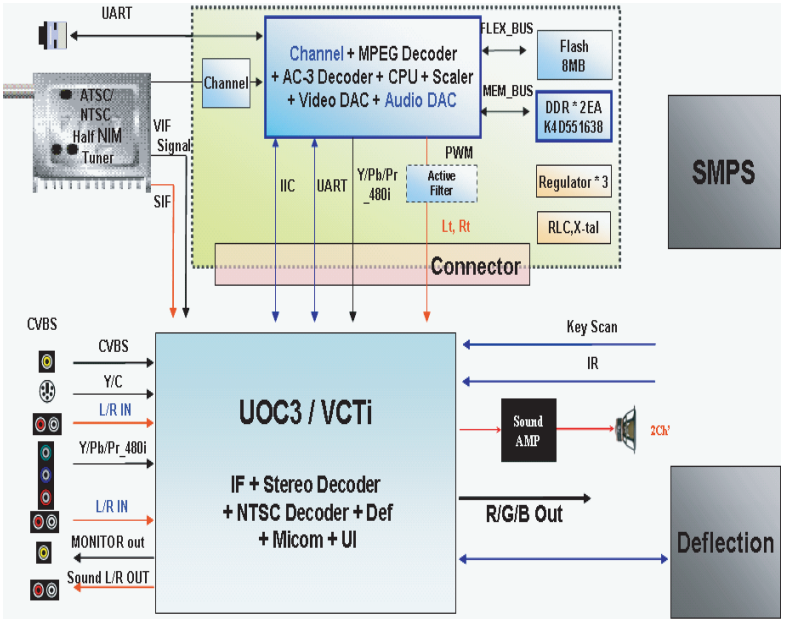


13-1-3 Power Supply Diagram

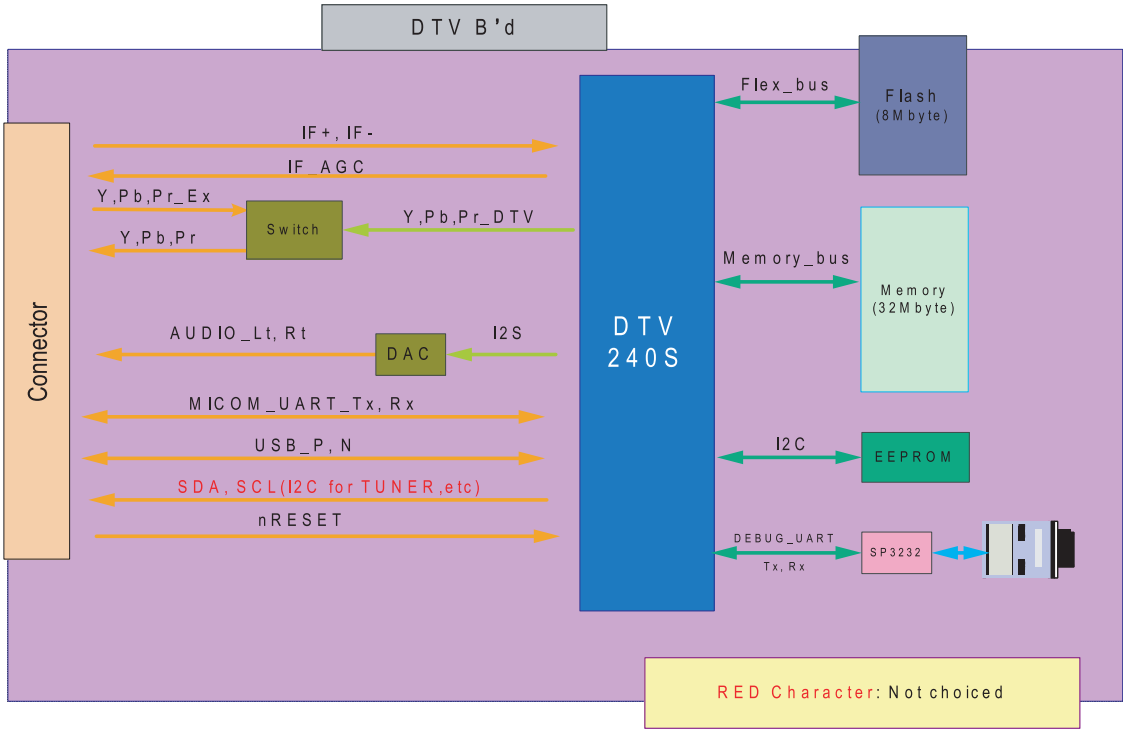


13-2 Partial Block Description

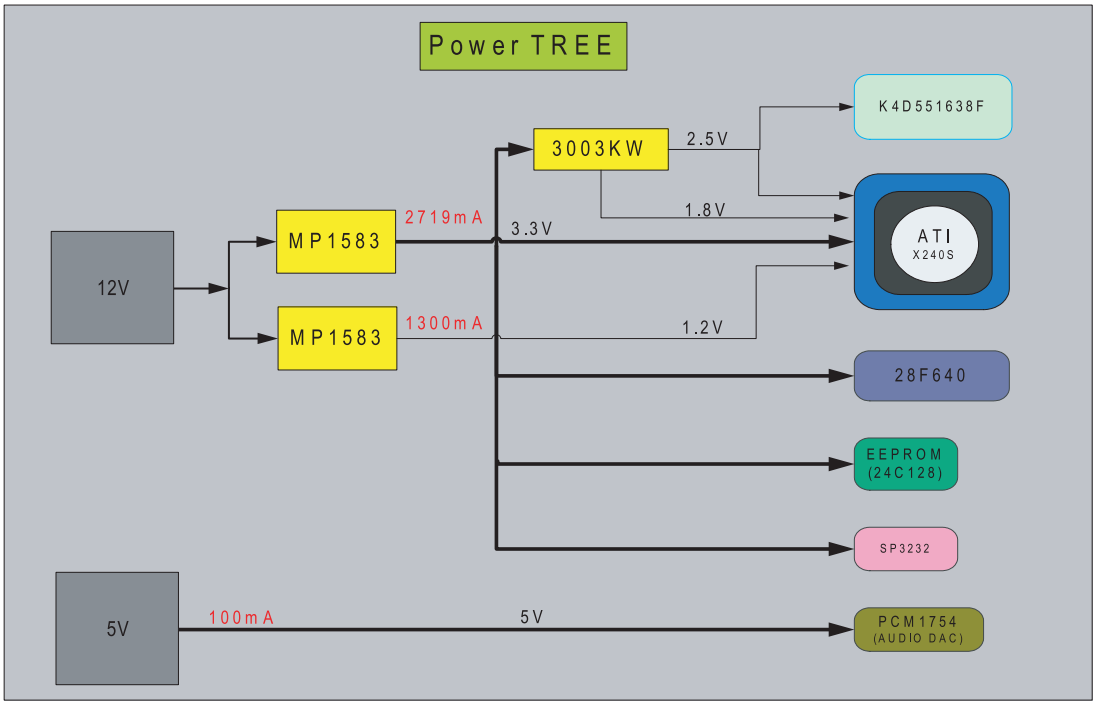
13-2-1 DTV Block Description



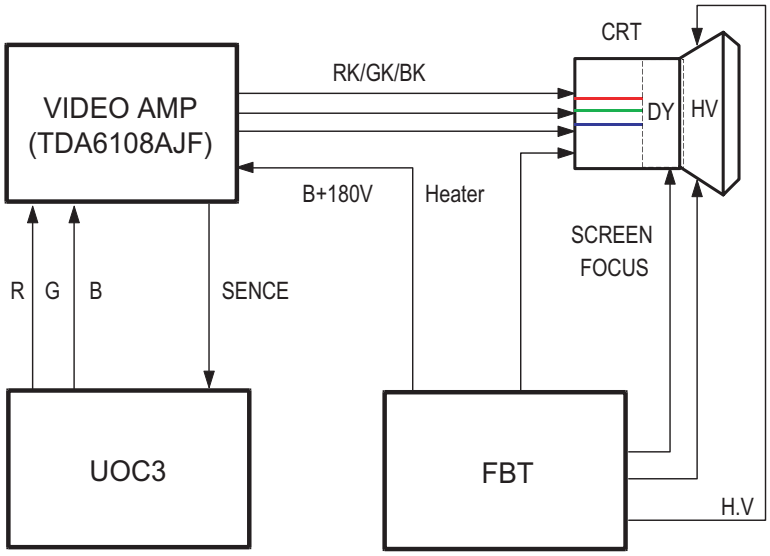
13-2-2 DTV Signal Block Description



13-2-3 DTV Module Power Supply Diagram



13-2-4 CRT Block Description



* R,G,B output from UOC3 IC is small, so we need high-output video amp(TDA6108AJF).

14. Reference Information

14-1 Other issues related to other products

Problem	Descriptions
A fixed screen can cause permanent damage to the TV Braun tube.	Braun, PDP and LCD TVs can all be damaged. When a still image is displayed in a sequence, this can leave stains or after-images due to the characteristics of the panel. However, the DLP TV has the advantage that no stains or after-images are left on the screen. The DLP TV has mirror pixels on the DMD panel that project the beam onto the screen, in which the mirror is a digital representation of 0s and 1s, leaving no trace of light. The mirror returns to a blank state so that no stains or after-images are left.

■ SD/HD broadcasts and the TV's display capability are related

1. A digital broadcast should be transmitted in wide screen (an aspect ratio of 16:9) HD. If the broadcasting station converts a conventional program created in normal screen (aspect ratio of 4:3) into a digital signal and broadcasts the signal, the left and right of the picture will not be displayed.
   This symptom also appears in other manufacturer's TV's. The three appliance companies are trying to resolve the problem through the Ministry of Information and Communication.
   * When watching an SD (normal) broadcast through a Digital (Wide) TV (480P normal broadcast)
   * When watching an SD (normal) broadcast through a Digital Ready (Wide) TV (Using a set-top-box)
   * When watching an analog (normal) broadcast through a wide TV
     (When watching a broadcast after changing the aspect ratio of the TV from 16:9 (wide screen) to 4:3)

2. When watching a DVD title or video tape in wide screen (21:9) through a wide (16:9) TV, watching video from a computer or game console by selecting the aspect ratio to 4:3, or watching video from a DVD, VCR, computer or game console through a wide TV by selecting the aspect ratio to normal (4:3) or wide (21:9), the left and right, or top and bottom of the picture will not be displayed.
   This symptom appears in other manufacturer's TV's. The three appliance companies are trying to resolve the problem through the Ministry of Information and Communication.

■ Changing the Order of the Picture Size for DTV 1080i/720p Sources

■ Restrictions

1. When you want to change the picture size in PIP 'ON', you must turn the PIP off before changing the size.
   However, you can change the main picture size even in PIP ON for products with no restrictions.

2. When the picture size is not Normal (4:3 for 4:3 display devices, 16:9 for 16:9 display devices) and you turn PIP on, the picture size is changed to Normal.
   However, you can turn PIP on without changing the picture size for products with no restrictions.

4. The picture size can be changed even in the blue screen.
   However, the picture size should be controlled by the product specifications if the change is impossible due to hardware restrictions.

14-2 Technical Terms

Digital Broadcast
Digital Broadcast is a television broadcasting signal digitized and transmitted according to the United States' terrestrial digital broadcast standard, or ATSC.

Mono
A type of audio interface that transmits audio signals through a single channel.
Through a mono interface, it is hard to experience stereophonic sound and sound is played only by one speaker.

Reception Sensitivity Amplification
A signal amplification technique that amplifies weak broadcasting signals by applying satellite technology to provide a better visual quality even for users in regions where only weak broadcasting signals are available.

Stereo
A type of audio interface that transmits audio signals through 2 channels.
Stereo transmits audio signals for the right and left channels so that you can experience stereophonic sound, and the sound is played with 2 speakers.

Analog Broadcast
Analog Broadcast is a television broadcasting signal transmitted according to the NTSC standard.

ANTENNA IN Port
A port to connect the TV aerial using a coaxial cable. It is generally used to watch public broadcast programs.

English Caption
A function that shows English caption or text information included in the broadcasting signal or video tape. You can use this function to study English by watching AFKN or CC marked video tapes.

Video/Audio Ports
You may experience poor visual and audio quality when watching a video tape on channel 3 or 4 through the antenna cable. You can experience better visual and audio quality connecting the TV and VCR through the Video/Audio ports. The video port is distinguished by the color yellow, and the audio ports are distinguished by the white (left) and red colors (right).

External Input
External Input is connecting video devices such as a VCR, camcorder, DTV receiver, DVD, etc. as a video source.

Satellite Broadcast
Satellite Broadcast transmits programs via satellite so that the broadcast is viable in all areas at a high visual and sound quality. It provides approximately 100 channels including public broadcast channels. To view satellite broadcast, you have to install an additional receiver.

Wired Broadcast
Satellite Broadcast refers to movie, entertainment and educational programs transmitted by the broadcasting station in a hotel or school.

Audio Multimix
Audio Multimix provides 2 languages for audio when broadcasting a foreign movie, drama, news, etc. You can select and listen to one of the supported languages or you can select and listen to both languages simultaneously.

Component Port (Green, Blue, Red)
The Component Port separately transmits the luminance signal and provides the best quality of all video connection types.

Cable Broadcast
Cable Broadcast transmits programs via cable instead of radio wave. To view a cable broadcast, you need to subscribe to your local cable broadcast service provider and install an additional receiver.

Tuner
A device that enables selecting a specific frequency for a channel on a TV or radio.

Anynet
Anynet is an AV network system that enables the easy-to-use AV interface for users by controlling connected AV devices through the Anynet menu when AV devices of Samsung Electronics are connected.

DVD (Digital Versatile Disc)
DVD is a large capacity media that can save multimedia content such as video, game, audio applications, etc. using MPEG-2 video compression technology on a CD-sized disc.

S-VIDEO IN Port
This is called super video. S-Video is a type of video signal which has the video luminance and color signals separated in order to provide a better visual quality.

VHF/UHF
VHF refers to TV channels 2 to 13, and UHF refers to TV channels 14 to 69.